# SERVICE DATA FILE NO. 030-053

# TOSHIBA COLOUR VIDEO CASSETTE RECORDER V-9600



#### **SPECIFICATION**

General

Video recording system: Head configuration 2-head

rotary

Video signal: Storage temperature: CCIR standard, PAL colour -20°C to +60°C (-4°F to

+140°F

(Variable)

34W

Operating temperature:

Antenna:

5°C to 40°C (41°F to 104°F) 75-ohms external antenna ter-

minal for UHF VHF channels 2 ~ 12 UHF channels 21 - 68

UHF channels E31 to E39

Channel coverage:

UHF output signal:

Power requirements: Power consumption:

Video

Input:

Weight:

 $480 \times 165 \times 310 \text{ mm (W/H/D)}$ 

Dimensions:

220V AC50 Hz

VIDEO LINE IN: Phono-type connector

1.0V (pp)

(W/H/D)

75-ohms unbalanced, sync.

 $(18.9 \times 6.50 \times 12.20 \text{ inches})$ 

negative

Output:

VIDEO LINE OUT:

Phono-type connector

1.0V (pp),

75-ohms, unbalanced, sync.

negative

Signal to noise ratio:

Better than 42 dB

Audio

Input:

Output:

Frequency response:

Signal to noise ratio:

Tape transport Tape speed:

Maximum recording time: Fast forward time:

Rewind time:

Timer

AUDIO LINE IN:

Phono-type, 50K ohms, -10

AUDIO LINE OUT:

Phono-type, less than 47k ohms, -5 dB, unbalanced

50 Hz to 8,000 Hz

Better than 40 dB

18.73 mm/sec.

3 hours 15 min. (with L-750) Within 4.5 min. (L-500)

Within 4.5 min. (L-500)

LED digital display Count down from AC line

frequency.

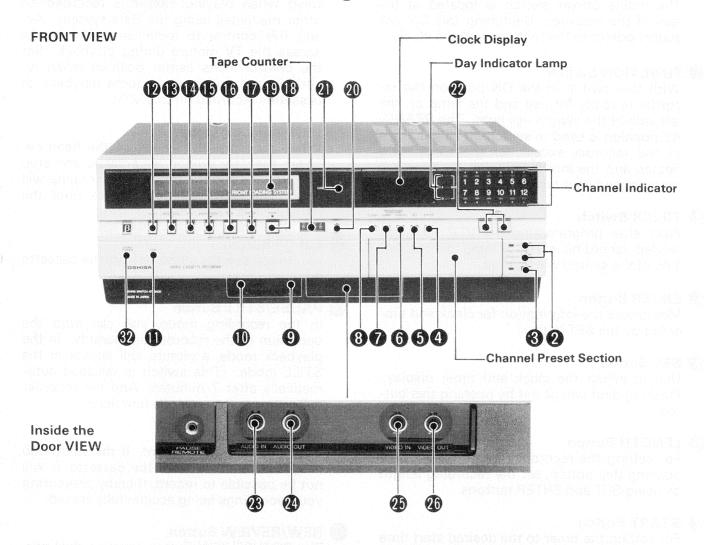
Design and specifications are subject to change without notice.

Caution

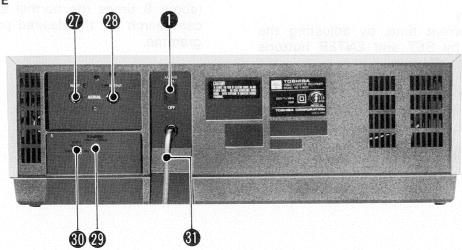
Copyright Act 1956 Users of video recording equipment should note that it may be unlawful to record television broadcasts, cinematograph films or video recording without the per-

mission of the relevant copyright owner.

# GENERAL FUNCTIONAL PARTS AND WHAT THEY DO



#### **FACE ARRIÈRE**



#### MAINS Switch

The mains power switch is located at the rear of the recorder. Switching this ON will supply power to the recorder and the clock.

# **PUNCTION Switch**

With this switch in the ON position the recorder is ready for use and the lamp on the left side of the switch will light. The STAND-BY position is used to switch off all functions of the recorder except for the clock, dew heater, and the interface circuit between the recorder and your television receiver.

#### TIMER Switch

Push after programming the VTR for unattended recording and the lamp on the left side of the switch will light up

### **4** ENTER Button

Memorises the information for clock and timer fed by the SET button.

#### **6** SET Button

Use to adjust the clock and timer display. Flashing digit will be set by pushing this button.

#### LENGTH Button

For setting the recording length time while pushing this button, set the recording length by using SET and ENTER buttons.

#### **7** START Button

For setting the timer to the desired start time of unattended recording, while pushing this button, set the start time by using SET and ENTER buttons.

#### CLOCK Button

Set to the current time, by adjusting the clock display by SET and ENTER buttons while pushing this button.

#### PAUSE REMOTE Jack

Used to connect the remote control. Pause in Rec or STILL in Play function can be controlled from the remote control.

# 10 TRACKING Knob

Used when playing cassettes recorded on other machines using the Beta system. Adjust this control to minimize black streaks across the TV picture during playback. Set the control in its center position when recording and during subsequent playback of cassettes recorded on this VTR.

# Dew Indicator Lamp

When moisture condenses on the head cylinder, the dew sensor will activate and stop all functions and the Dew Indicator Lamp will light. The VTR will not operate until the moisture has evaporated.

#### **EJECT Button**

Use to remove the cassette from the cassette compartment.

# **B** PAUSE/STILL Button

In the recording mode, you can stop the operation of the recorder temporarily. In the playback mode, a picture will appear in the STILL mode. (This switch is released automatically after 7 minutes. And the recorder will return to the previous function.)

# RECord Button

Push this button to record. If the safety tab has been removed from the cassette, it will not be possible to record, thereby preventing your recordings being accidentally erased.

# REW/REVIEW Button

The REW/REVIEW Button serves a dual purpose. Push for rewinding of the tape. When this button is pushed during the playback mode, the picture moves quickly backward (about 8 times the normal speed) and you can search for the desired part of the programme.

#### **(f)** PLAY Button

Push for playback of recorded tape.

# FF/CUE Button

The FF/CUE Button serves a dual purpose. Push for fast forward the tape. When this button is pushed during the playback mode, the picture moves quickly forward (about 8 times the normal speed) and you can search for the desired part of the programme.

# B STOP Button

Push to stop. All operating modes are cancelled.

# (19) Cassette Compartment

When the cassette is inserted in this compartment, the cassette will automatically be ready for operation. The cassette indicator lamp will light.

#### **20** Counter Reset Button

Used to set the tape counter to the '0000' position.

# Cassette Indicator Lamp

When the cassette is correctly positioned in the VTR, the cassette indicator lamp will light.

#### Channel Select Buttons

Use to select the channels you wish to view or record.

#### AUDIO IN Terminal

Used for connecting an audio input from other equipment.

Connecting a plug into this jack cuts off the audio signal coming from the tuner and records the audio signal connected to this "AUDIO IN" Jack. Disconnecting the plug automatically resumes the audio signal from the tuner.

#### **AUDIO OUT Terminal**

An audio signal is available for use by other equipment.

# **25** VIDEO IN Terminal

Used for connecting a video camera or other video equipment.

Connecting a plug into this jack cuts off the picture from the tuner and records the video signal connected into the "VIDEO IN" Jack. Disconnecting the plug automatically resumes the picture from the tuner.

# **W** VIDEO OUT Terminal

Provides a video signal from the recorder for use by other equipment.

# **AERIAL IN Terminal**

Connect your television antenna to this terminal.

# AERIAL OUT Terminal

Connect this terminal to your television receiver, using the cable provided.

# **②** VTR UHF OUTput

The output from the recorder to your television receiver can be adjusted to any channel from 31 to 39 by using this screwdriver adjustment, as described under "Preliminary Adjustments".

#### (III) TEST SIGNAL Switch

Provides a test signal to assist you to tune your receiver to the output of the video recorder, as described under "Preliminary Adjustment".

#### Power Cord

Connect this cord into the AC outlet (AC 240V).

#### **Mains Power Indicator Lamp**

When the MAINS Switch is ON, the Mains Power Indicator Lamp will light.

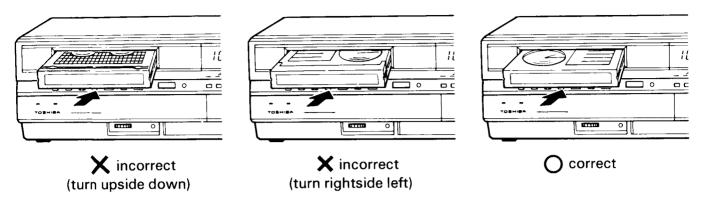
#### CAUTION

- \* Do not install the VTR in a location near heat sources, such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- \* Do not place anything heavier than 10 kg on the VTR.
- \* Allow adequate air circulation to prevent internal heat buildup. Do not place the VTR on soft surfaces (rugs, blankets, etc.) or too near materials (curtains, draperies).
- Keep the set and the video cassette away from strong magnetic fields.
- \* To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- \* Do not drop any inflammable or metallic objects or liquid into the inside of the VTR. This may cause damage to the set.
- \* Should any liquid or solid object fall into the cabinet, unplug the VTR and have it checked by an authorized Toshiba dealer before operating it any further. Condensation (dew) may occur if the VTR is subject to extreme temperature changes such as when it is moved from a very cold outdoors to a very warm room. The safety mechanism in the VTR stops operation immediately if condensation has occurred within the VTR.
  - Normal operation can be resumed when the condensation has evaporated.
- \* Do not hit or shake the set when moving it. This may cause damage.

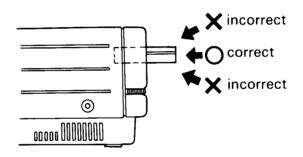
- \* Make the connection between the AERIAL terminal on this VTR and the AERIAL antenna terminal of a TV receiver as instructed in "ANTENNA CONNECTIONS". Never connect the output of the VTR to an antenna or make simultaneous (parallel) antenna and VTR connections at the antenna terminals of your receiver.
- \* After playing a tape, remove the cassette from the VTR if it will not be used for any length of time.
- \* Save the original shipping carton and packing materials; they will come in handy if you ever have to transport your VTR. For maximum protection, repack the set as it was originally packed at the factory.

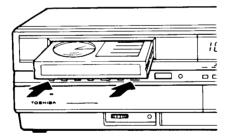
# CORRECT METHOD TO INSERT THE CASSETTE

# 1. MAKE SURE THE CASSETTE IS THE RIGHT WAY UP

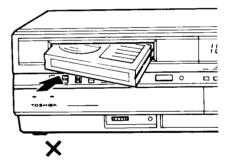


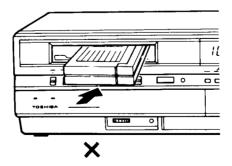
# 2. KEEP THE CASSETTE LEVEL WHEN YOU PUSH IT IN





The cassette must be square in the opening.





Notes; \* To insert the cassette horizontally.

\* Do not insert anything except cassette.

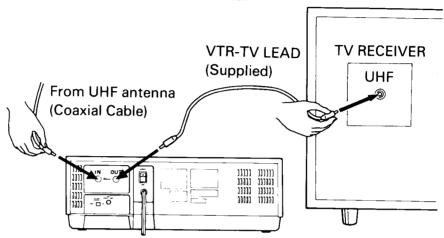
#### **ANTENNA CONNECTION**

#### **UHF TV Antenna Connection.**

Remove the antenna lead from the back of your TV receiver and plug it into the rear of the recorder at the terminal marked AERIAL IN.

#### VTR-TV Connection.

Connect one end of the cable supplied to the antenna terminal of your TV receiver and the other end to the terminal marked AERIAL OUT at the back of the recorder. Note that the ends of this cable are not the same, so that only one end will fit the television terminal.



# PRELIMINARY ADJUSTMENTS

- Switch on your TV receiver and select an unused channel button. If your receiver is supplied with a channel button expressly intended for use with a video recorder, then select that button.
- 2. Switch on the recorder at the mains switch located at the rear.
- 3. Refer to the section headed "List of Controls" and check that the controls are set to the following positions:

FUNCTION Switch 2	set to ON	
TEST SIGNAL Switch 30	set to ON (on rear panel of VTR)	

- 4. Your recorder will now be supplying a test signal to the TV receiver and this can be tuned by adjusting the selected channel until the black and white pattern shown below right is clearly displayed.
- 5. The test signal is on a channel between 31 and 39 and is set during production. However, in rare cases you might experience some interference from an adjacent broadcast channel. This can be overcome by changing the output channel of the recorder, and this is done by turning the small screwdriver-adjusted VTR UHF OUTput (29) on the rear panel. Retune your receiver to suit the new output channel.
- 6. Switch the TEST SIGNAL switch to OFF.



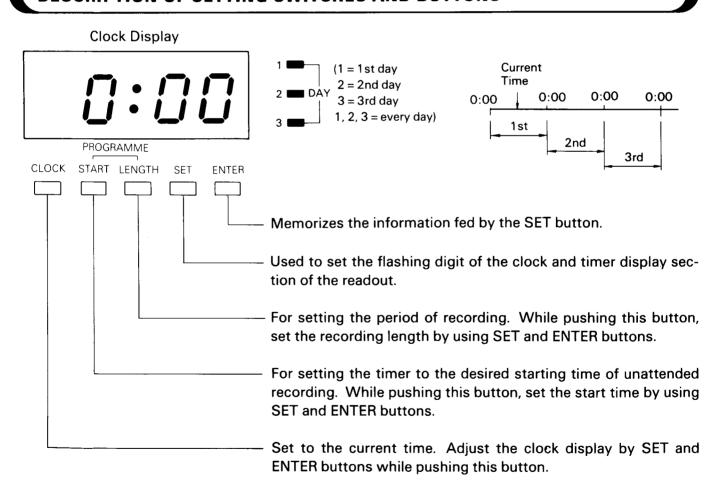
**Test Pattern** 

# PROGRAMMABLE TIMER

- \* This timer can reserve one recording time of one channel for today or tomorrow or the day after tomorrow or one program at the same time for everyday. (For 3 days including today.)
- \* If power to the VTR is interrupted, the clock will continue to run and the programming will not be disturbed for about 2 seconds.

After 2 seconds of power interruption if the clock is flashing 0:00. The clock and programming will have to be reset.

# **DESCRIPTION OF SETTING SWITCHES AND BUTTONS**



#### **Programming**

- \* The MAINS switch and FUNCTION switch must be ON when programming the timer.
- \* After programming is completed, push the TIMER switch.
- \* It is not necessary to push the RECord button as this is automatic in the TIMER mode.

# < Setting the Current Time>

Example: 9:35

- a) FUNCTION switch may be ON or STAND BY.
- b) Keep on pushing the CLOCK button while setting the current time through step c to step e.
- c) Push the SET button until the hour portion reads 9 (current hour). Release the SET button and push the ENTER button. The 10 minute portion will now flash.
- d) Push the SET button until the 10 min. portion reads 3. Then push the ENTER button. The 0 min. portion will now flash.
- e) Push the SET button until the 0 min. portion reads 5. Then push the ENTER button.
  The hour portion will now flash.
- f) Release the CLOCK button when the correct time has been set.

#### Notes:

- \* 0:00 flashing indicates that power failure or disconnection of the power plug has occured, readjust the current time and programme.
- \* Be sure to set the current time before adjusting the programme.











# < Presetting the Programmable Timer>

Example 1. (2nd day 8:00 ~ 9:00, channel 4)

- a) FUNCTION switch must be ON.
- b) Keep on pushing the START button while setting the start time of recording through step c to step e.
- c) Push the SET button until the 2nd Day indicator lamp will light. Push the ENTER button. (The hour portion will now flash.)
- d) Push SET button until hour reads 8.

- Push ENTER

Push SET button until 10 min. reads 0.

- Push ENTER

Push SET button until 0 min. reads 0.

- Push ENTER

(The CH indication will now flash.)

- e) Push SET button until the desired channel is reached. Push the ENTER button.
- f) Release the START button.
- g) Keep on pushing the LENGTH button while setting the recording time as step h. (The hour portion will now flash.)
- h) Push SET button until hour reads 1.

- Push ENTER

Push SET button until 10 min. reads 0.

- Push ENTER

Push SET button until 0 min. reads 0.

- Push ENTER

- i) Release the LENGTH button.
- j) Push the TIMER switch.

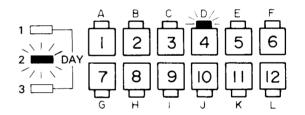
#### Notes:

- \* If the length of recording is set to 0:00 or the tab on the reverse side of the cassette is removed, the timed recording cannot be carried out, and the flashing indication -:-- will be displayed when the TIMER switch is pushed.
- \* Correct the OFF time again or replace the cassette with another having tab.



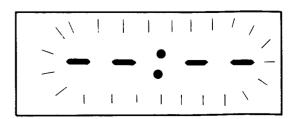












Example 2. (Everyday 20:30  $\sim$  21:00, channel ITV 10)

- a) FUNCTION switch must be ON.
- Keep on pushing the START time while setting the start time of recording through step c and step e.
- c) Push the SET button until the Day indicator lamp will light wholly. Push the ENTER button.
   (The hour portion will now flash.)
- d) Push SET button until hour reads 20.

   Push ENTER
  Push SET button until 10 min. reads 3.

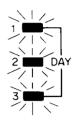
   Push ENTER
  Push SET button until 0 min. reads 0.

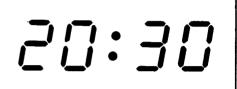
   Push ENTER
  (The CH indication will now flash.)
- e) Push SET button until the desired channel is reached. Push the ENTER button.
- f) Release the START button.
- g) Keep on LENGTH button while setting the recording time as step h.
   (The hour portion will now flash.)
- h) Push SET button until hour reads 0.

   Push ENTER
  Push SET button until 10 min. reads 3.

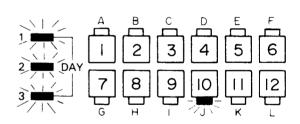
   Push ENTER
  Push SET button until 0 min. reads 0.

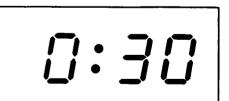
   Push ENTER
- i) Release the LENGTH button.
- j) Push the TIMER switch.







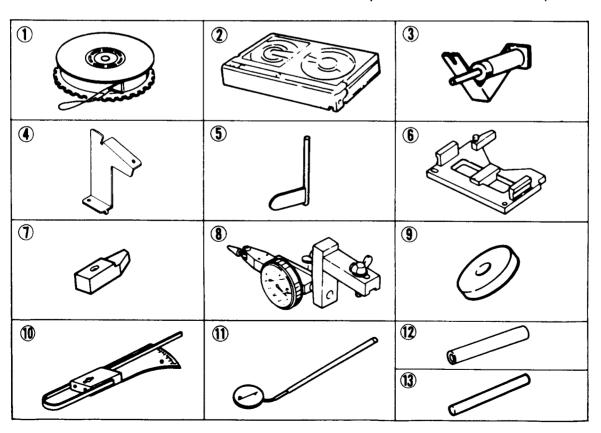




**TOOL AND JIGS REQUIRED** 

NAME	CODE NO.	JIG NO.	QTY	SKETCH NO.	REMARK
Forward Back-Tension Measurement Jig Fixture	70909025	SL-0002	1	1	0
T type Torque Measurement Cassette	70909031	SL-0003	1	2	×
R-F type Torque Measurement Cassette	70909030	SL-0004	1	2	×
Forward Tension Alignment Jig	70909005		1	3	0
Back-Tension Bracket	70909075		1	4	0
Loading Ring Clearance Gauge	70909018	SL-0007	1	5	0
Cassette Reference Plate	70909019	SL-0008	1	6	0
Tape Guide Adjustment Jig	70909036		1	7	0
Rotating Head Disk Alignment Jig Fixture					
(Eccentricity Gauge)	70909021	SL-0012	1	8	0
Reel Table Retainer Removal Jig	70909065		1	12	0
Capstan FG Adjustment Jig (B)	70909068		1	9	0
Tension Gauge (Max. 100g)	70909024		1	10	0
Tension Gauge (Max. 200g)	70909012		1	10	×
Tension Gauge (Max. 500g)	70909029		1	10	0
Dental Mirror	70954003		1	11	0
Alignment Tape (KR5-2H)	70955083		1		0
Capstan FG Adjustment Jig (A)	70909066		1	13	0

Note: O... Indispensable tool x... Not indispensable tool



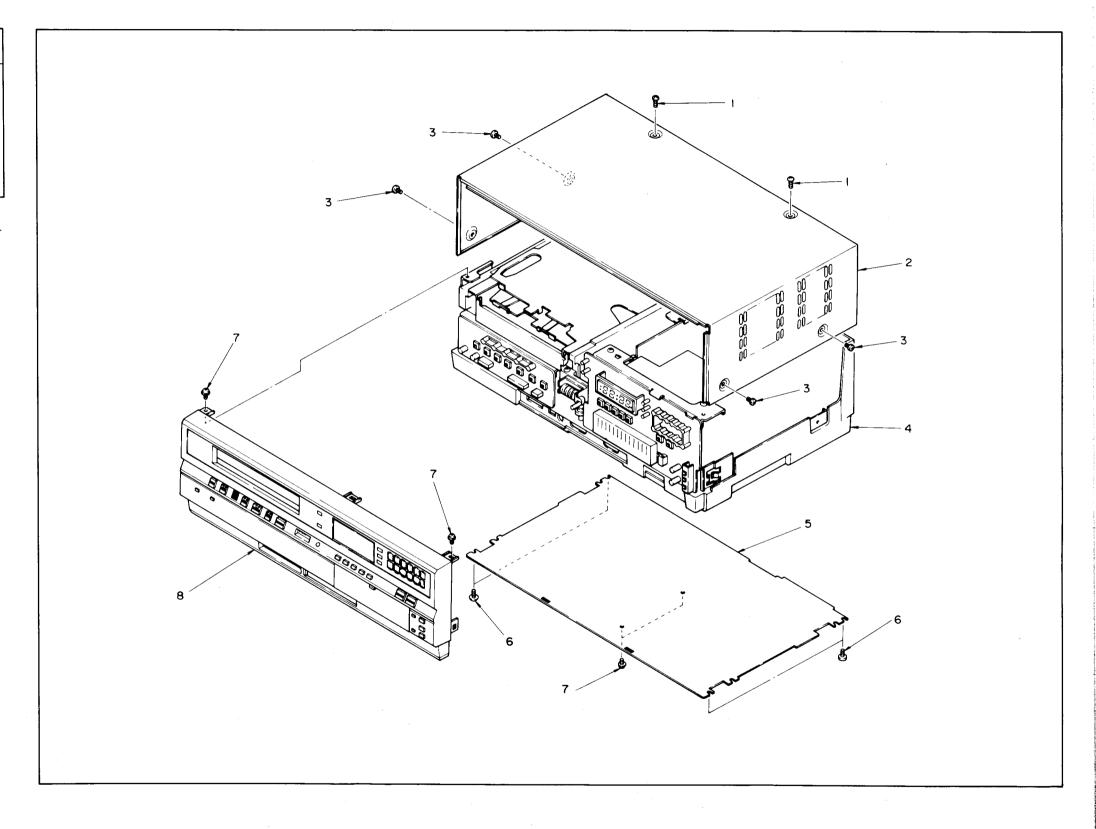
-12-

# **EXPLODED VIEWS AND MECHANICAL PARTS**

# 1. CABINET ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1 2 3 4 5 6 7 8	A102B A102 A102A B601 A103 A103A A103B A101	70814181 70841245 70812210	Screw, Decoration Top Cover Screw, 4 × 0.7 × 6 MM Chassis Frame Bottom Cover Screw, 4 × 12 MM Tapping Screw, 3 × 6 MM Front Panel	

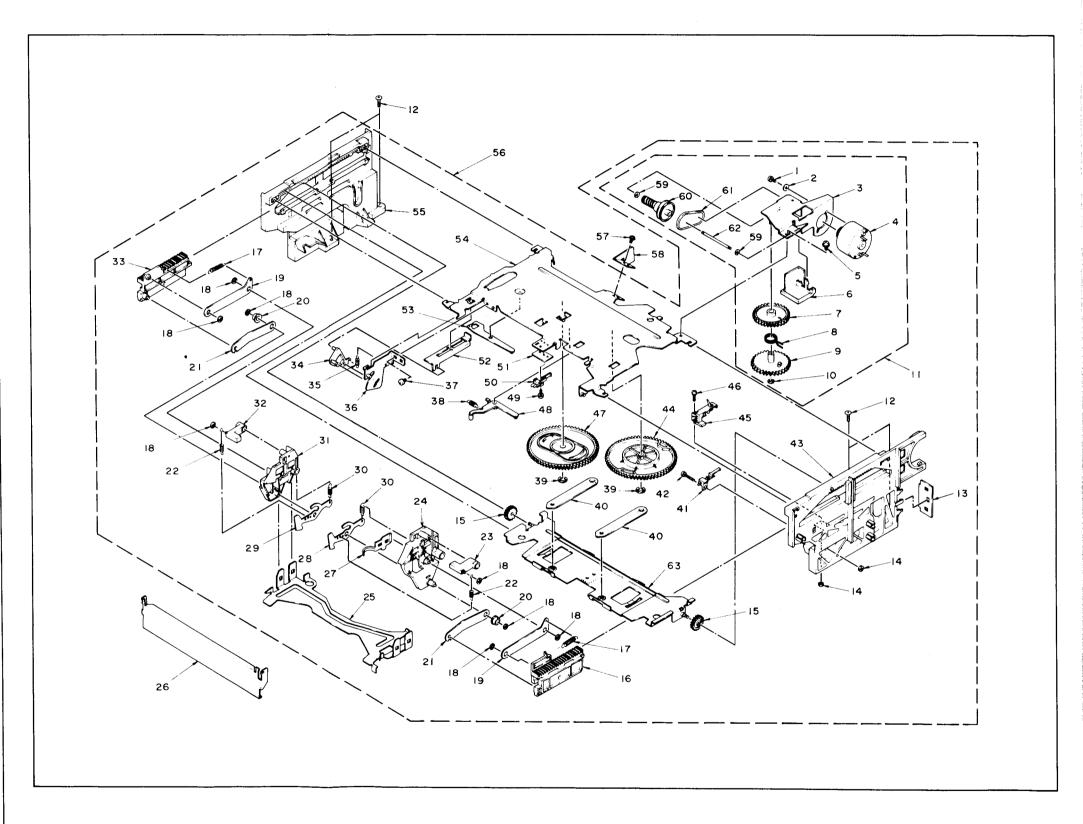
#### NOTE:



# 2. FRONT LOADING ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1	K381A		Screw, 2.6 × 4 MM	
2	K381B		Washer, 2.6 MM	
3	K372A		Bracket, FL Drive	
4	K381	70324182	Motor Assy	
5	K371A		Screw, 3 × 6 MM Grease Guard	
6 7	K379 K373		Gear, Idle Exit	
8	K373		Spring, Idle Spring	
9	K374		Gear, Idle Entrance	
10	K375	70394075	E Ring	
11	K371	70334073	Drive Assy, Front Loading	
12	K301A		Screw, 3 × 12 MM	
13	U621		PC Board, Front Loading	
14	S652E		Nut 2.6 MM	
15	K309		Gear Pinion	
16	K339		Slider, Slide Rack (R)	
17	K341		Spring, Cassette up Spring	
18	K340		Washer, 2.4 MM	
19	K332		Link, (A)	
20	K335	1	Guide Roller	
21	K334		Link, (B)	
22	K330		Spring, Connector	
23	K327		Cassette Detect Lever (R)	
24	K324		Bracket, Holder (R)	
25	K321		Cassette Holder Assy	
26	A104	70861014	Door	
27	K325		Spring	
28	K328A		Relay Lever (R)	
29	K328		Relay Lever (L)	
30	K329		Spring	
31	K323		Bracket, Holder (L)	
32	K326		Cassette Detect	
			Lever (L)	
33	K337		Slider, Slide Rack (L)	
34	K305	70251492	Lever, Door	
35	K306  K307	70351482	Spring Door Bracket Assy	
37	K307		Screw, 3 × 6 MM	
38	K360		Spring	
39	K358	23002400	E Ring 4 MM	
40	K304	20002400	Link, Clank	
41	S652	70145168	Switch, Leaf	İ
42	S652D		Screw, 2.6 × 25 MM	
43	K392		Bracket, Slide Rack Guide	
			(R)	
44	K357		Gear, Exit Gear (R)	
45	S653	70145111	Switch, Error Erase	
1 40	00505	1	Prevention	
46	S653D	1	Screw, 2.6 × 15 MM Exit Gear (L)	
48	K355 K359		Lever, Switch	
49	S651E		Screw, 2 × 4 MM, Machine	
50	S651	70145185	1	
51	S651F	70867048	Sheet	
52	K354		Slider, Door	
53	K353		Cam Rock Lever Assy	
54	K352		Top Board Assy	
55	K302		Bracket, Slide Rack Guide (L	.)
56	K301	70314030	• .	
57	K365A		Screw, 3 × 6 MM	
58			Bracket, Cassette Stopper	
59	K378		Polyslider	
1 ~~	14077		2.6 × 4.7 × 0.5 MM	
60	K377	70342083	Worm Gear Assy Belt, Square Loading	
61	K380	/0342083	Worm Post	
62	K372C			

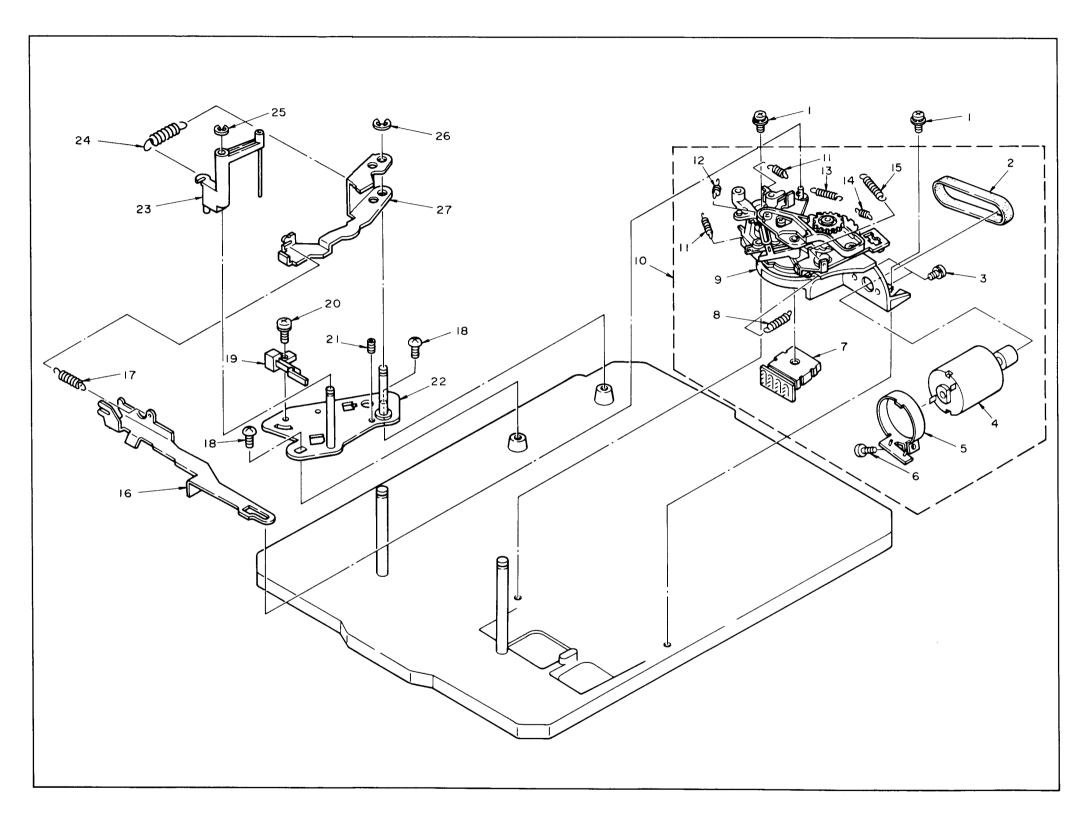




# 3. LOADING CAM UNIT COMPARTMENT ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1 2 3 4 5 6 7 8 9	B501A B508 B504 B503 B503A B503C B509 B533 B502	70342092 70322168 70145175 70351408	Screw, 3 × 8 MM  Belt, Loading Cam  Screw, 2.6 × 6 MM  LC Motor Assy  Shield Assy  Screw, 2.6 × 6 MM  Rotary Switch, Cam  Spring, Reverse Prevention  LC Motor Bracket Assy	
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	B501 B527 B523 B519 B510 B529 B151 B152 B120A S656 S656A B125 B121 B123 B124	70312068 70351403 70351404 70351402 70351398 70351405 70351465 70145168 70321513 70351483	LC Drive Assy Spring, Lock Arm, A Spring, Lock Arm, B Spring, Cam Arm Spring, Ratchet Spring, Lock Arm Cam Link Spring, Pinch Lock Screw, 3 × 8 MM Swtich, Leaf Screw, 2.6 × 6 MM Screw, 3 × 5 MM, Set Bracket Assy, Pinch Lock Lever Assy, Slack Sensor Spring, Slack Lever	
25 26 27	B123C B122A B122	70394075	E Ring, 2.3 MM E Ring, 3 MM Pinch Lock Lever	

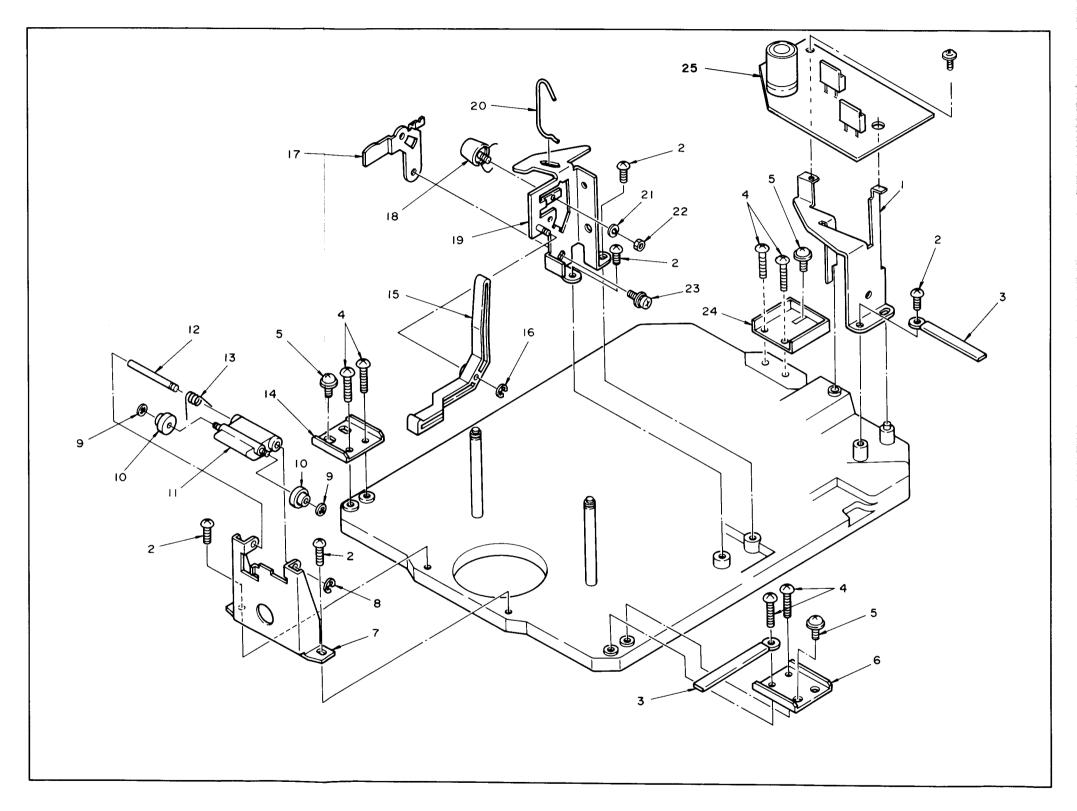
#### NOTE



# 4. MAIN CHASSIS ASSEMBLY (RIGHT SIDE)

Key No.	Location No.	Part No.	Description	Remark
1	B181		Pinch Bracket	
2	B181A		Screw, 3 × 8 MM	
2 3	W210		Lead Holder	
4	B612A		Screw, 3 × 12 MM	
5	B512B		Screw, 4 × 12 MM	
6	B612		Bracket	
7	K269		Bracket	
8	K273	23002150	E Ring, 1.5 MM	
9	K275		Washer	
10	K274	70348065	Roller, Cam Follewer	
11	K271		Lever, Double	
12	K272		Post, Double	
13	K276		Spring	į
14	B611		Bracket	
15	K255		Lever, Cover Open	İ
16	K256	70394075	E Ring, 2.3 MM	
17	K253		Lever, Level Adjust	
18	L661	70212003	Coil, Sensing, 0.18 MHz	
19	K152		Opener Assy, Cassette	
			Compartment	
20	K257		Earth Wire	
21	L661A		Washer, 2 MM	1
22	L661B		Nut, 2 MM	
23	K254		Screw, 3 × 6 MM	
24	B613		Bracket	
25	UT01	70191784	PC Board Assy FL MOTOR DRIVE	

## NOTE:

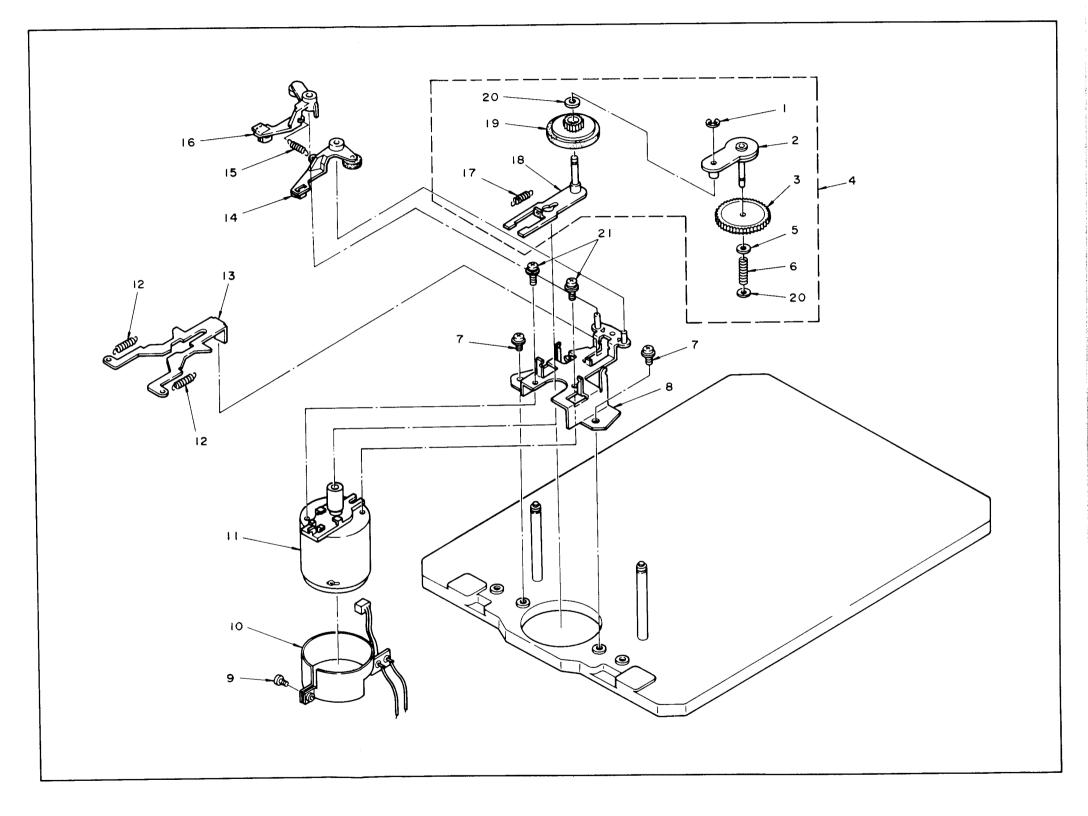


# 5. REEL MOTOR ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1	K107		E Ring, 1.5 MM	
2	K106K		Idle Holder B Assy	
3	K106P		Idle Gear	i
4	K106	70316057	Clutch Assy, Idler	
5	K106R	70396003	Polyslider, $2.1 \times 4.0 \times 0.25$	
6	K106Q	70351457	Spring, Clutch Torque	1
7	K101A		Screw, 3 × 8 MM	
8	K102		Chassis Assy, Reel Drive	
9	K111C		Screw, $2.6 \times 6$ MM, Tapping	
10	K111		Shield Assy, Reel Motor	
11	K110	70326451	Motor Assy, Reel	
12	K109		Spring, Slider	
13	K103		Slider	
14	K105	70326432	Brake Assy, Take Up	
15	K105E	70351460	, ,	
16	K104	70326431	Brake Assy, Supply	
17	K108	70351458	Spring, Idler	
18	K106A		Idle Holder Assy	
19	K106D		Idler Wheel Gear Assy	
20	K106G		Washer, Thrust	
21	K110E		Screw, 2.6 × 4 MM	

# NOTE:

Parts without Parts number in Parts List are not available as replacement parts.

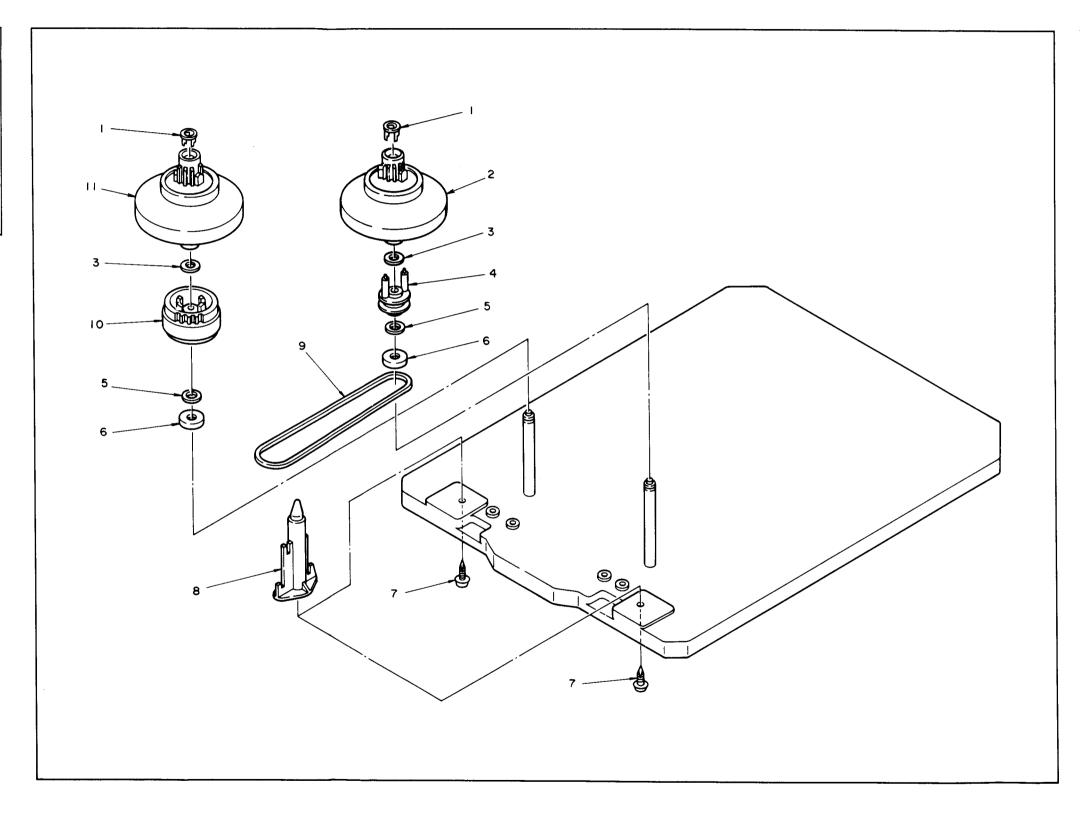


**- 22 -**

# 6. REEL CHASSIS ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1 2 3	K173 K171 K174		Stopper, Reel Table Reel Table Assy, Take Up Washer, Polyethylene, 4.1 × 6.5 × 0.5 MM	
4 5 6 7 8 9 10	K172 K175,K154 K170,K150 K267 K266 K268 K157 K151	70394081 70342041	Pulley, Reel Table	

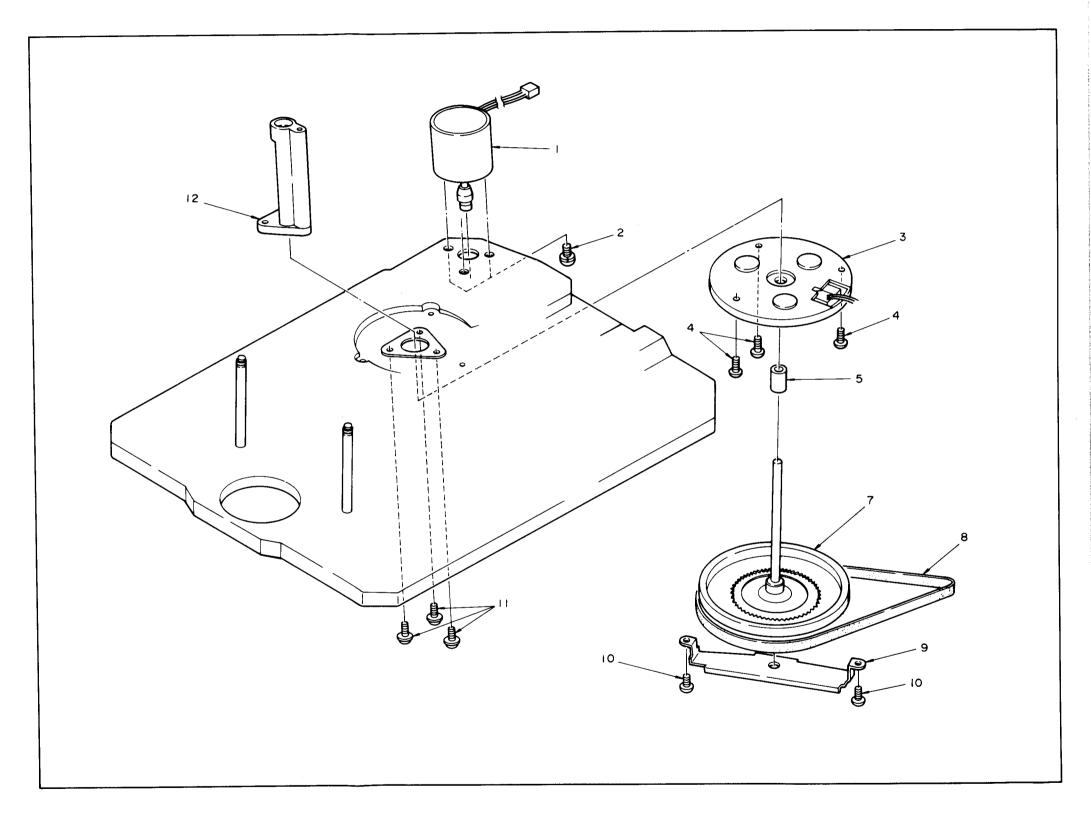
#### NOTE:



# 7. CAPSTAN MOTOR ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1	B309	70125101	Motor Ass'y, DC, Capstan	
2	B309A		Screw, 2.6 × 4 MM	
3	L551	70321539	Coil Assy, Capstan FG	
4	B301A		Screw, $3 \times 0.5 \times 6$ MM	
5	B304D		Spacer, Capstan	
7	B304	70335030	Flywheel Assy	
8	B307	70342082	Belt, Flat, Capstan	
9	B302		Bracket Assy, Thrust Bearing	
10	B302A		Screw, 3 × 8 MM	
11	G270C		Screw, 3 × 6 MM	
12	G270		Sleeve, Capstan	

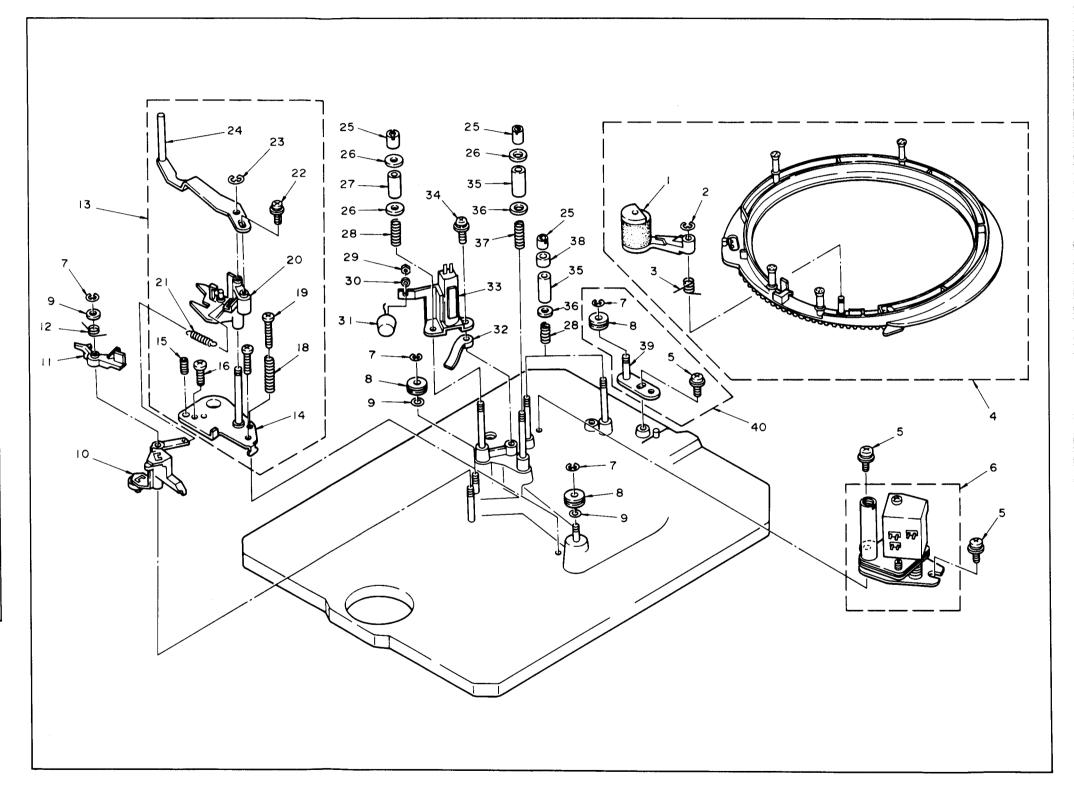
## NOTE:



# 8. MAIN BASE ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1	B404	70332023	Lever Assy, Pinch Roller	
2	B408	23002200	E Washer	
3	B403	70351263	Spring, Pinch Roller	
4	B401	70312071	Loading Disk Assy	
5	G202A	100.207	Screw, 3 × 8 MM	
6	G202	70321502	Guide Assy, Exit	
7	G275E,	70394075	E Ring, 2.3 MM	
•	B105D	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_ · · · · · g, _ · · · · · · · ·	
8	G276		Roller, Disk Guide	
9	B276B		Polyslider,	
•	52,00		3.1 × 5.4 × 0.5 MM	
10	B105		Tension Sub Arm Assy	
11	B107		Lever, Arm Shift	
12	B108	70351467	Spring, Arm Shift Lever	
13	B101	70001407	Tension Servo Assy	
14	B104		Tension Bracket Assy	
15	B104C		Screw, 3 × 6 MM	
16	B101E		Screw, 3 × 0.5 × 5 MM	
17	B101A		Screw, 3 × 0.5 × 10 MM	
18	B101A		Spring, Adjust	
19	B101C		Screw, 3 × 0.5 × 20 MM	
20	B1010		Tension Lever	
21	B106	70351316	Spring, Tension	
22	B102C	70351316	Screw, 3 × 10 MM, Tapping	
23	B103A		E Ring, 3 MM	ŀ
24	B103A	70321447	Tension Arm Assy	
25	G259	70321447	Nut	
26	G259		Flange, First Guide	
27			Guide Pole, First	
28	G251 G260		Spring, Tape Exit Guide	
29				
30	L662A		Nut, 2 MM	
31	L662B	70212003	Washer, 2 MM	
32	H032B	70212003	Coil, Sensing, 0.18 MHz	
33		70102011	Lead Holder	
34	H032	70183011	Head Assy, Full Erase	
1 -	H032A		Screw, 3 × 12 MM	
35	G261		Guide Pole, Entrance	
36	G263 G253		Flange, Exit Guide, Lower	
38			Spring, Second Guide	
39	G262		Flange, Exit Guide	
40	G275A		Bracket, Roller Bracket	
1 40	G275		Roller Assy, Disk Guide	

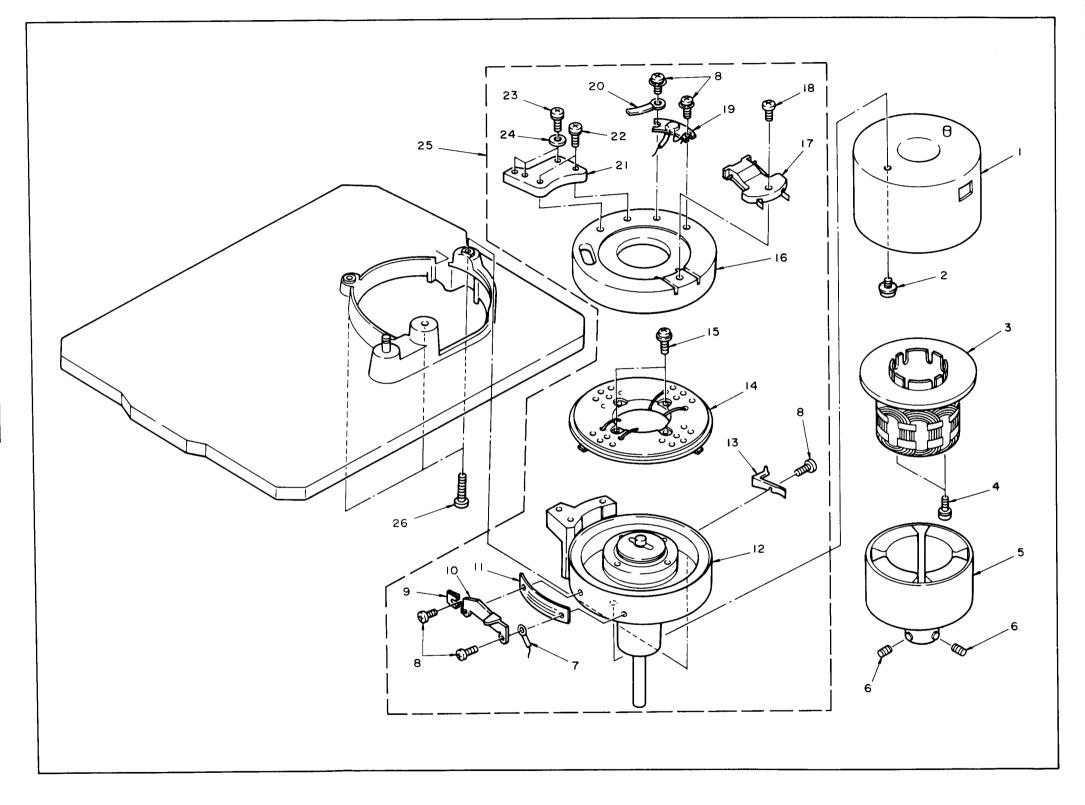
## NOTE:



# 9. CYLINDER ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1	G153		Shield, Case Assy	
2	G153A		Screw, 3 × 6 MM	
3	G152	70125077	Staytor	
4	G152A		Screw, 2 × 5 MM	
5	G151	70125076	Rotor	
6	G151A		Screw, 4 × 6 MM	
7	W114		Lug, Dew Sensor	
8	G137C		Screw, $3 \times 0.5 \times 6$ MM	
9	G137B		Bracket, Dew Sensor	
10	G137		Tape Holder B	
11	RL91	70420007	Dew Sensor	
12	G022		Lower Scanner W/Connect	
			Bracket	
13	G136		Tape Holder, A	
14	G120	70321542	Video Head Assy	
15	G120A		Screw, 3 × 8 MM,	
			W/Washers	
16	G131	70321492	Upper Cylinder	
17	G132	70321232	Tape Holder Assy	
18	G132A		Screw, 3 × 8 MM	
19	RL92	70213012	Dew Heater	
20	RL92C		Lead Holder	
21	G133		Bracket	
22	G133A		Screw, 4 × 8 MM	
23	G133B		Screw, $3 \times 0.5 \times 10 \text{ MM}$	
24			Washer, 3 MM	
25		70311115	1	
26	G001A		Screw, 3 × 10 MM	

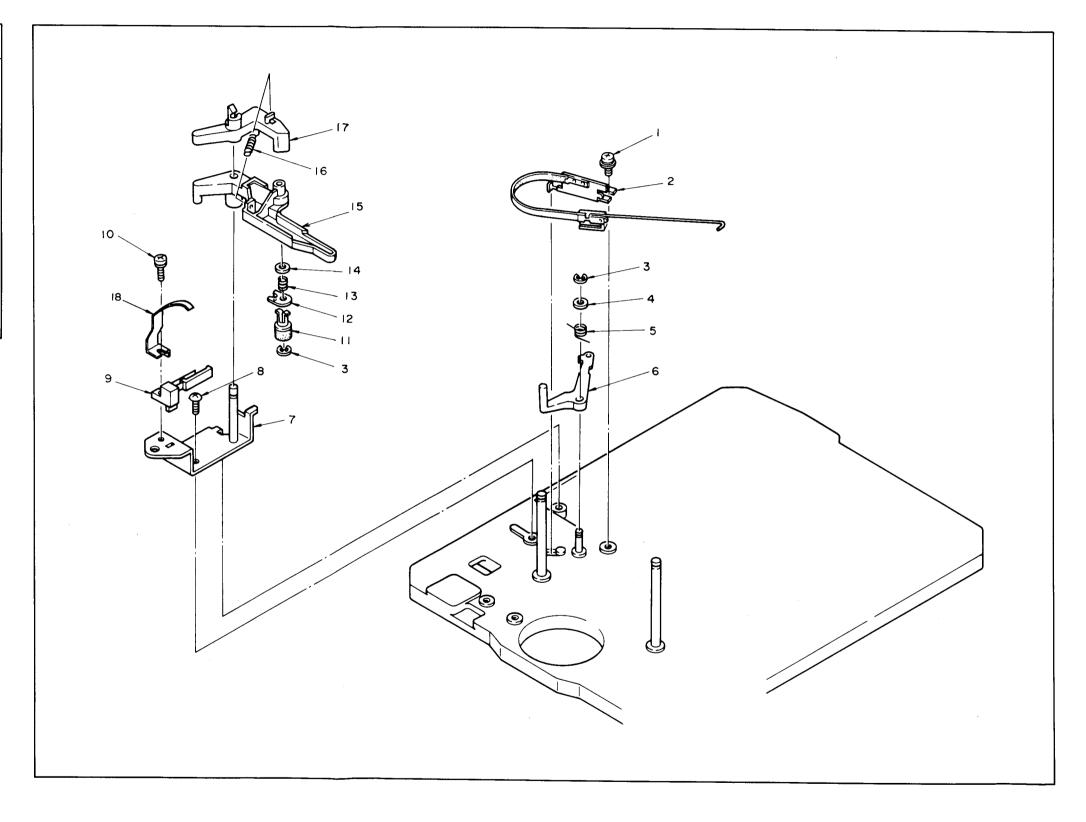
# NOTE:



#### 10. MAIN CHASSIS ASSEMBLY (LEFT SIDE)

Key No.	Location No.	Part No.	Description	Remark
1 2	B110J B110	70321514	Screw, 3 × 8 MM	
3	K264	70321314	Band Brake Assy E Ring, 2.3 MM	
4	K263	70394075	Washer	
5	K262	70351415	Spring, Soft Brake	
6	K261	70351415	Lever, Soft Brake	
7	K202		Detect Bracket, Assy	
8	K201A		Screw, 3 × 8 MM	
9	S654	70145168	Switch, Leaf	i
10	S654A		Screw, 2.6 × 6 MM	
11	K204		Roller Clutch Assy	
12	K205		Clutch Arm	
13	K206		Spring, Roller Clutch	
14	K206A		Washer, Polyethylene,	
			$4.1 \times 6.5 \times 0.5 \text{ MM}$	
15	K203	Í	Detect Arm B Assy	
16	K208		Spring, Cassette Detector	
17	K207		Lever, Unloading End	
1			Detector	
18	K210		Spring, Earth	

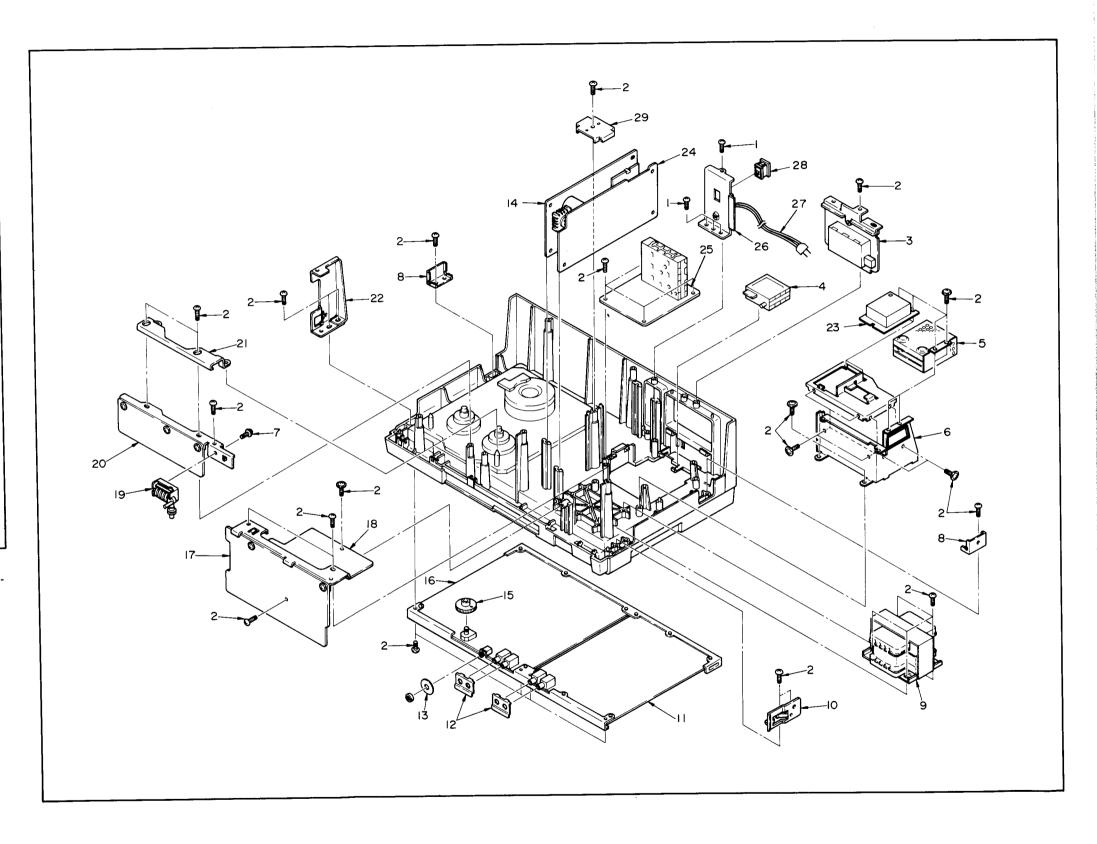
## NOTE:



# 11. CHASSIS ASSEMBLY

Key No.	' I '	Location No.	Part No.	Description	Remark
1	1	B606A		Screw, 4 × 10 MM Tapping	
2		H003C		Screw, 4 × 12 MM Tapping	
3		H003	70142043	Antenna Terminal Board	'
4		H004	70123047	RF Unit, MD5536T	
5	- 1	U901	70191806	DC-DC Converter	
6		QV01		Bracket	•
7		QV01C		Screw, 3 × 6 MM	
8	3	B603		Bracket, Top Cover	
9		T802	70213067	Trans. Power	
10		B605		Bracket, Front Panel	
11	ı	U201	70191779	PC Board Assy, Video	
12		V371	70867019	Cover, Jack	
13	3	V373	70810055	Cover, Remote Control Jack	
14		U301	70191780	PC Board Assy, Video 2	
1!	- 1	V361	70862046	Knob, Tracking	
10	6	U501	70191781	PC Board Assy,	
Ì				Servo Logic Audio	
11	7	UX01	70191785	PC Board Assy,	
1				Timer Control	
1:	8	UX61	70191810	PC Board Assy,	
	_		70444000	Timer Selector	
1	_	B607	70141020	1	
2	0	UL01	70191783	PC Board Assy,	
١,	_	20000		Logic Control Bracket Cassette Guide	
2		B6090		Bracket, Front Panel	
	2	B604	70191782		
2	3	U961	70191782	Servo Clock	1
٦		111001	70191796	_	
	4	U801 U001	70191790		
- 1 -	.5 !6	B606	70191809	Bracket, Power in Holder	
	27	P801	70168060	1	
–	28	S801	70145192		
	29	B608	70140102	Bracket	
L		5000			

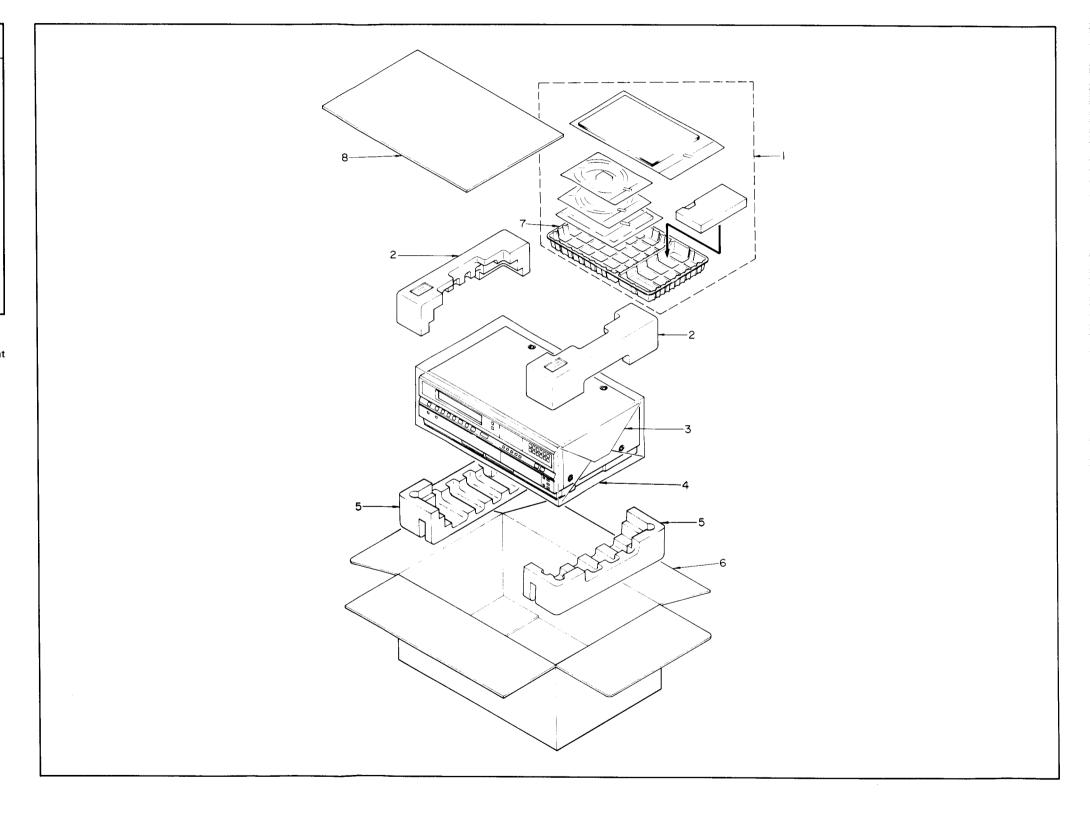
## NOTE:



## 12. PACKING ASSEMBLY

Key No.	Location No.	Part No.	Description	Remark
1 2 3 4 5 6 7 8	Y101 Y101A Y103A Y103B Y103C Y103D Y103E Y103F Y103F Y104 A702 A705 A704 A703 A701 A709 A712	70941251 70941252 70942173 70942174 70942175 70942177 70942178 70942195 70942194 70168035 70921090 70921091 70913162	Owner,s Manual (E, G, F,) Owner,s Manual (S, I, D,) Quick Referance (ENG) Quick Referance (GER) Quick Referance (FRE) Quick Referance (ITA) Quick Referance (ITA) Quick Referance (DVT) Quick Referance (BLUE) Quick Referance (RED) PAL/SECAM Type Cable Packing Top Sheet Polyethylene Bag Packing Bottom Carton Box Tray Sheet	

## NOTE:



# **ELECTRICAL PARTS LIST**

Resistors ...... CF: Carbon Film, CC: Carbon Composition, MF: Metal Film,

OMF: Oxide Metal Film, VR: Variable Resistors.

(All CD and PF capacitors are  $\pm 5\%$ , 50V and all resistor,  $\pm 5\%$ , 1/8W unless otherwise).

LOCATION NUMBER	PART NUMBER	DESCRIPTION				
PIF BOARD ASSY U001, 70191809						
< CAPACITO	<capacitors></capacitors>					
C001,C002,						
C003,C004	24232103	CD, 0.01μF, +80%, -20%				
C007,C013		<b></b>				
C021,C026		OD 0 004 F 000/ 000/				
	24232102					
C006	24636478	EL, 0.47μF, 50V				
C008	24636479	EL, 4.7 μF, 50V				
C010	24633101	•				
	24636339					
I .	24633470					
	24436020					
C017	24436110	CD, 11pF				
C018	24633471	EL, 470μF, 16V				
4	24436470	CD, 47pF				
		PF, 0.0068μF, ±10%				
C023	24340360	EL, 10μF, 50V				
C024	24340300	CD, 36pF				
< RESISTOR	! <b>S</b> \					
R001	24360101	CF, 100 ohm				
	24360301					
	24360562					
R004	24360471					
R012	24360152	CF, 1.5K ohm				
R006	24360270					
R007	24360821	CF, 820K ohm				
R008	24360392	CF, 3.9K ohm				
R009	24360683	CF, 68K ohm				
R010	24360221	CF, 220 ohm				
R011,R042	24360824	CF, 820K ohm				
R013	24360511	CF, 510 ohm				
R014,R019 R017, R005	> /4.4miiii/	CF, 1K ohm				
R016	24360681	CF, 680 ohm				
R018	24941821	CC, 820 ohm, 1/4W				
R020	24360153	CF,15K ohm				
RO21	24360242	CF, 2.4ohm				
RO22	24360182	CF, 1.8k ohm				
R023,R024	24360103	CF, 10K ohm				
R025	24360473					
R026	24360105	:				
R027	24360564	CF, 560K ohm				

LOCATION NUMBER	PART NUMBER	DESCRIPTION			
R028	24360224	CF, 220K ohm			
R051	24061149	VR, 330K ohm, 0.15W			
R052	24061138	VR, 4.7K ohm, 0.15W			
<semiconductor></semiconductor>					
IC002	B0354710	IC, TA7607AP			
IC006	B0325290	IC, TA7337P			
Q001	A6308871	NPN, Transistor,			
		2SC388ATM			
Q003	A6048371	2SK30ATM-GR, (FET)			
Q005	A6534045	PNP, Transistor, 2SA1015-Y			
Q007, Q008	A6317547	NPN, Transistor,			
		2SC1815NEW, Y, FA			
D001, D002	A7246711	Diode, 1S1555V			
<coils></coils>					
L001	23262951	Coil, TRF1019 R choke			
L002	23261985	Coil, TRF9221			
	23262856	Coil, TRF1452			
	23262853	·			
	23262852	•			
L006	23283150				
L007	23283360				
L008	23283120	· · · · · · · · · · · · · · · · · · ·			
L009	70256001				
L010	23261052				
< MISCELLA	NEOUS>				
Z001		PSF, F1034			
Z002	23107972	Ceramic Video Trap			
		TPS5.5MB			
Z003	23107947	SFE5.5MBF			
P001	23164658	Plug 9P, BRN			
P002	23164668	Plug 4P, BRN			
P003	23164671	Plug 3P, BRN			
H001	70121019	•			
VIDE	O BOARD AS	SSY U201 70191779			
< CAPACIT	ORS>				
C202	24436270	CD, 27pF			
C203,C210,	)	·			
C220,C237,					
C243,C245,	0.4000105	OD 0.04 E 000' -00'			
C246,C249,	24232103	CD, 0.01μF, +80%, -20%			
C261,C266,	ļ				
C269					

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C273,C276,		
C279,C281,		
C286,C291,		
C294,C299,		
C300,C310,	24232103	CD, 0.01 μF, +80%, –20%
C317,C324,		
C341,C342,		
C341,C342,		
C204,C207,		
l I		
C225,C231,		
C232,C233,		
C248,C260,		
C263,C264,	24232223	CD, 0.022μF, +80%, –20%
C265,C274,		
C275,C289,		
C305,C315,		
C332,C337,		
C205,C213,		
C217,C333,	24633220	EL, 22μF, 16V
C334,C339,		
C206,C224,		
C226,C230,		
C262,C290,		
C301,C314,	24633470	EL, 47μF, 16V
C316,C329,		
C330,C331,		
C335,C336,		
C208	24632101	EL, 100 <i>μ</i> F, 10V
C209	24633330	EL, 33μF, 16V
C211,C295,		·
C302,C307,	24636010	EL, 1μF, 50V
C318,C319,		, , ,
C212		PF, 0.022 <i>μ</i> F
1	24212471	
C215	24867104	
C216	24436821	, , ,
C218	24436150	, 1
C222	24359181	· '
C223	24436181	
C227	24436241	, - 1
1	24436560	' ' '
C229,C270,		
C272	24436101	CD, 100pF
C234,C238,		
C267	24867473	PF, $0.047 \mu$ F
C235,C236,		
C239,C230,	> 24625470	EL, 4.7 <i>μ</i> F, 35V
C239,C292,	240304/9	LL, 4.7 µF, 33V
0233		

LOCATION	PART	DESCRIPTION
NUMBER	NUMBER	
C241	24436471	· ·
C242	24633100	· ' '
	24636229	· ' '
C268,C311		CD, 120pF
C271,C298		CD, 330pF
C278,C340		·
C282,C326		CD, 220pF
C284,C285		
1	24436271	· · · · · · · · · · · · · · · · · · ·
	24636478	EL, 0.47 μF, 50V
C297	24436300	,
1	24436221	, - 1-
1	24867472	"
C306	24212472	· ·
	24212102	,
C309,C313		CD, 27pF
i	24867123	
	24436330	' '
C322	24353160	'
C323	24353470	•
C327	24632102	EL, 1000μF, 10V
< RESISTOR		CE 22K -h
1	24380223	
		CF, 3.9K ohm
R204,R329, R376,R422	7/17/2011/67	CF, 1.5K ohm
		CF, 750 ohm
R206,R331,	0.40004.00	07.404
R364,R394	24380103	CF, 10K ohm
R207,R238,	0.4000000	05.00%
R324	24380332	CF, 3.3K ohm
R209,R224, )	0.40004.00	05.41/
R371	24380102	CF, 1K ohm
R210,R212, \	24260202	CE 2K ob
R361	24360302	CF, 3K ohm
R211	24000952	Thermistor, 3K ohm
R213	24360912	CF, 9.1K ohm
R214,R317,	24360182	CF, 1.8K ohm
R396		
R215,R217	24360681	CF, 680 ohm
R216,R286,	24360221	CF, 220 ohm
R375		
R218,R341,	24360101	CF, 100 ohm
R362		
R219,R287,	0.4000000	05 001/ 1
R368,R384,	24360333	CF, 33K ohm
R385,R391,		CC 47 kahm
R220,R280,	24360473	CF, 47 kohm

LOCATION NUMBER	PART NUMBER	DESCRIPTION
R281,R283,	<u> </u>	
R285,R299,		
R301,R303,	24360473	CF, 47K ohm
R304,420		
R221,R387	24380473	CF, 47K ohm
R221,N307	24380473	
R223,R225,		·
R226,R248	24360202	CF, 2K ohm
R227,R243,		OF 0.01/2 1
R365	24360622	CF, 6.2K ohm
R228	24398112	CF, 1.1K ohm ± 2%
R229	24398162	
R230	24378162	CF, 1.6K ohm ± 2%
R231	24378112	CF, 1.1K ohm ± 2%
R232	24378152	
R233,R374	24360271	CF, 270 ohm
	24360151	
R235	24360100	CF, 10 ohm
R236	24360123	•
R237	24360122	CF, 1.2K ohm
R239,R245,		
R249,R274,		
R276,R277,	ł	
R278,R284,	<b>24360102</b>	CF, 1K ohm
R302,R305,		•
R308,R345,	1	
R382,R400,	1	
R405,R413	•	OF 40K 1
R241		CF, 16K ohm
R242	24360133	CF, 13K ohm
R244,R339,	24360682	CF, 6.8K ohm
R370	) ]	
R246,R344,	24360152	CF, 1.5K ohm
R399	<i>)</i>	
R247,R342,	24360332	CF, 3.3K ohm
R409 R251,R254,	, ]	
R251,R254,	24061239	VR, 1K ohm, 0.15W
R252	24061246	VR, 15K ohm, 0.15W
R252,R255,	.)	•
R352	24061241	VR, 2.2K ohm, 0.15W
R256,R259	24061137	VR, 3.3K ohm, 0.15W
R257	24061247	•
R258	24061245	,
R260,R288	`	
R310,R333		CF, 4.7K ohm
R349		
R261	24380911	CF, 910 ohm
	_	

LOCATION	PART	
NUMBER	NUMBER	DESCRIPTION
R262,R383,	24360222	CF, 2.2K ohm
R403	- '	
R263,R311,		
R313,R314,	24360391	CF, 390 ohm
R315,R316,		
R377 )		
R265,R289		
R290,R292	24260222	CF, 22K ohm
R293,R295	24360223	CF, ZZR OIIII
R309,R332 R369		
R266,R327,		
R397	24360331	CF, 330 ohm
R267	24360161	CF, 160 ohm
R268,R291,	500,01	,
R323,R326,		
R337,R338,	24360103	CF, 10K ohm
R367,R379,		
R406,R410		
R269	24378332	CF, 3.3K ohm $\pm 2\%$
R270	24378182	CF, 1.8K ohm $\pm 2\%$
R271	24378472	CF, 4.7K ohm $\pm 2\%$
R272,R296,	24360562	CF, 5.6K ohm
R392,R415	24300302	or, olok omn
R273,R373,	24360821	CF, 820 ohm
R404	~~3000Z1	01,020 OHH
R275		CF, 1.1K ohm
R279,R318		CF, 560 ohm
R282,R380,	24360471	CF, 470 ohm
R389		
R294,R398		CF, 220K ohm
R297	-	CF, 27K ohm
R298		CF, 100K ohm
R300,R325,	<b>24360563</b>	CF, 56K ohm
R306	24360303	CF, 30K ohm
R307	24380183	
R312	24380222	
R319	24380511	CF, 510 ohm
R320	24360201	CF, 200 ohm
R321,R360,	24260662	CE 6 9K ohm
R414	24360682	CF, 6.8K ohm
R322	24360301	CF, 300 ohm
R330	24380122	CF, 1.2K ohm
R334,R416	24360751	CF, 750 ohm
R335		CF, 3K ohm
R336	24360272	CF, 2.7K ohm
1		

LOCATION NUMBER	PART NUMBER	DESCRIPTION
1	24360153	CF, 15K ohm
R343,R366, R395	24360512	CF, 5.1K ohm
R347	24360241	CF, 240 ohm
R348	24360752	CF, 7.5K ohm
R354	24061255	VR, 470K ohm, 0.15W
R363	24360203	CF, 20K ohm
R372	24380472	CF, 4.7K ohm
R378	24380153	CF, 15K ohm
R381	24360560	CF, 56 ohm
R386	24380273	CF, 27K ohm
R388	24360620	•
R390		CF, 24K ohm
R393		CF, 39K ohm
	24360621	·
R402		OMF, 33 ohm, 1/2W
R408		CF, 8.2K ohm
		CF, 680 ohm
R417	24360820	,
1		CF, 18K ohm
1		CF, 680 ohm
R421		CF, 12k ohm
< SEMICONE		01, 128 01111
IC201	B0356320	TA7637P
IC202	70135005	
Į.	70119037	
ì	70119167_	·
1	B0325390	
IC207		MB-14300
IC209	70119168	CX-832
Q210,Q216,)		37. 332
Q218,Q233,		PNP, Transistor,
Q234,Q235,	A6534045	2SA1015-Y, FA
0236		, , ,
0211,0212,		
Q213,Q215,		
Q217,Q219,		
Q220,Q221,		
Q222,Q223,		
Q224,Q225,		
Q226,Q227,	A6317547	, , ,
Q228,Q229,		2SC1815-Y, FA
Q230,Q231,		
Q232,Q237,		
Q238,Q239,		
Q240,Q242,		
0243,0244		
1 42 10,42 117		

LOCATION NUMBER	PART NUMBER	DESCRIPTION
Q241	A6319302	NPN, Transistor,
		2SC1959-Y, FA
Q210,Q216,		
Q218,Q233,	A6534021	PNP, Transistor,
Q234,Q235,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2SA1015-O, FA
Q236		
Q211,Q212,		
Q213,Q215,		
Q217,Q219,		
Q220,Q221,		
Q222,Q223,		NIDNI Turanista
0224,0225,	A6317526	NPN, Transistor,
Q226,Q227, Q228,Q229,		2SC1815-Y, FA
Q220,Q229,		
Q230,Q231,		
Q238,Q239,		
Q240,Q242,		
Q243,Q244,		
Q214	A6841900	NPN, Transistor, 2SD549
Q241	A6319283	NPN, Transistor,
		2SC1959NEW-O, FA
D201,D202,		
D205,D206,		
D207,D209,	A7246711	Diode, 1S1555 (TV)
D210,D214,		
D216,D217		
D203,D204,	A7110017	Diode, 05Z5.6Y, Zener
D215		
D211	A7110262	Diode 05Z9.1Y, Zener
D203,D204,	Ä7110018	Diode, 05Z5.6Z, Zener
D215 J	A7110263	Diada 0570 17 7-nor
1		Diode, 05Z9.1Z, Zener
L201	<b>ANSFORMER</b> 23283221	> Coil, TRF4221JG, Peaking
L201	23283180	Coil, TRF4180, Peaking
L203	23283820	Coil, TRF4820JG, Peaking
L204	23283151	Coil, TRF4151JG, Peaking
L205,L206	23283121	Coil, TRF4121, Peaking
L207	23283470	Coil, TRF4470JG, Peaking
L208,L209	23283680	Coil, TRF4680JG, Peaking
L210	23283829	Coil, TRF4829JG, Peaking
L211	23283472	Coil, TRF4472JG, Peaking
L212,L214,	23283471	Coil, TRF4471, Peaking
L215	202004/1	Joil, Thi 447 I, I caking
L213	23283829	Coil, TRF4829JG, Peaking
L216	23283270	Coil, TRF4270JG, Peaking
L218	23283101	Coil, TRF4101JG, Peaking

LOCATION NUMBER	PART NUMBER	DESCRIPTION	
L251,L252	70252034	Trans, TRV034	
T251	70252039	Trans, TRV039	
	70252036	TRV036, OSC	
T253	70252035	TRV035, OSC	
T254		Trans, TRV037	
		114.1.5, 111.1.5	
<u> </u>	23153979	Crystal, 4.43 MHz	
X201 X202	23153980	Crystal, 4.43 MHz APC	
	70138013	Delay Line, 2H PDL-1243F	
1	23250966	Delay Line, 1H	
X204		/	
Z201	70132032		
	70132037		
Z203	70132030	LC Filter, LC730D	
Z204	70132031	i	
Z205	70153022	· ·	
P201,P206	23164671	Plug 3P BRN	
P202,P207, P210	23164668	Plug 4P BRN	
P203,P208	23164669	Plug 4P BLK	
P204	23164672	Plug 3P BLK	
P205	23164673	Plug 3P WHT	
P209	23164665	Plug 5/P BRN	
P211,P212	70163054	Jack/Phono Print K (SW)	
VIDEO	VIDEO II U301 BOARD ASSY 70191780		
< CAPACITO	ORS>		
C101,C111,			
C112,C127,	0.4000/470	E) 47 E 16V	
C132,C134,	2463,3470	EL, 47μF, 16V	
C160			
C103,C104,	)		
C106,C108,			
C115,C116,			
C117,C119,	24232103	CD, 0.01 μF, +80%, –20%,	
	I	50V	
L C120 C121		500	
C120,C121,		50V	
C137,C142,		500	
C137,C142, C105,C107	24636010	EL, 1 <i>μ</i> F, 50V	
C137,C142, C105,C107 C123,C136	24636010	EL, 1 <i>μ</i> F, 50V	
C137,C142, C105,C107 C123,C136 C109,C129	24636010 24212102		
C137,C142, C105,C107 C123,C136	24636010 24212102	EL, 1 <i>μ</i> F, 50V	
C137,C142, C105,C107 C123,C136 C109,C129 C110,C113,	24636010 24212102	EL, $1\mu$ F, 50V CD, $0.001\mu$ F, $\pm 10\%$	
C137,C142, C105,C107 C123,C136 C109,C129 C110,C113, C128,C133,	24636010 24212102	EL, $1\mu$ F, 50V CD, $0.001\mu$ F, $\pm 10\%$ CD, $0.022\mu$ F, $+80\%$ , $-20\%$ ,	
C137,C142, C105,C107 C123,C136 C109,C129 C110,C113, C128,C133, C166	<pre>24636010 24212102 24232223</pre>	EL, $1\mu$ F, 50V CD, $0.001\mu$ F, $\pm 10\%$ CD, $0.022\mu$ F, $+80\%$ , $-20\%$ , 50V	
C137,C142, C105,C107 C123,C136 C109,C129 C110,C113, C128,C133, C166 C114	<pre>24636010 24212102 24232223 24436331</pre>	EL, $1\mu$ F, 50V CD, $0.001\mu$ F, $\pm 10\%$ CD, $0.022\mu$ F, $+80\%$ , $-20\%$ , 50V CD, $330\mu$ F CD, $390\mu$ F	
C137,C142, C105,C107 C123,C136 C109,C129 C110,C113, C128,C133, C166 C114	24636010 24212102 24232223 24436331 24436391	EL, $1\mu$ F, $50V$ CD, $0.001\mu$ F, $\pm 10\%$ CD, $0.022\mu$ F, $+80\%$ , $-20\%$ , $50V$ CD, $330\mu$ F CD, $390\mu$ F PF, $0.0056\mu$ F	
C137,C142, C105,C107 C123,C136 C109,C129 C110,C113, C128,C133, C166 C114 C141	24636010 24212102 24232223 24436331 24436391 24867562	EL, $1\mu$ F, $50V$ CD, $0.001\mu$ F, $\pm 10\%$ CD, $0.022\mu$ F, $+80\%$ , $-20\%$ , $50V$ CD, $330\mu$ F CD, $390\mu$ F PF, $0.0056\mu$ F	

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C161	24632101	EL, 100μF, 10V
C130	24636478	EL, 0.47μF, 50V
C131	24867223	PF, 0.022 <i>μ</i> F
C135,	24436821	CD, 820pF
	24436330	CD, 33pF
C139	24867104	PF, 0.1μF
1	24436201	CD, 200pF
C145	24353111	CD, 110μF
C147.C148	24436101	CD, 100pF
C149	24436560	
	24436751	·
C163	24436390	•
C164	24436510	
	24436201	·
C168		CD, $0.0022\mu\text{F}$ , $\pm 10\%$
<b>!</b>		<b>22</b> , 333 222, 11, 12, 13
< RESISTOR	<b>5</b> >	
R100,R192,	24360222	CF, 2.2K ohm
R193	24380103	CE 10K ohm
R101,R128		
R102	24380750	·
	24380122	
R104	24380472	
	24360103	
R106,R107		
R108,R110		,
R109,R111		•
		CF, 33K ohm
R113,R166,	24380182	CF, 1.8K ohm
R114,R120, R121,R142 R144,R179 R201		CF, 1K ohm
R115	24962101	OMF, 100 ohm, 1/2W
R116,R147	24380242	CF, 2.4K ohm
R117	24360511	CF, 510 ohm
R164,R174,	24360102	CF, 1K ohm
R123	24360391	CF, 390 ohm
1	24380391	•
R125	24380821	
R126		CF, 680 ohm
		CF, 330 ohm
R129		CF, 4.7K ohm
R130		CF, 22K ohm
R131		CF, 47K ohm
1	-	
R195,R197	> 243h0223	CF, 22K ohm
R132,R184,	24360223	

LOCATION NUMBER	PART NUMBER	DESCRIPTION	LOCATION NUMBER	PART NUMBER	DESCRIPTION
R133,R180	24360101	CF, 100 ohm	T101,T102	70253002	PRE-AMP
R134	24360302	CF, 3K ohm	T103	70252033	TRV033
R135,R199	24380202	CF, 2K ohm	IC101	B0325300	IC, TA7339P
R136,R200	24380271	CF, 270 ohm	IC102	B0356720	IC, TA7672P
R138,R175	24380561	CF, 560 ohm	IC103	B0325420	IC, TA7350P
R139	24380122	CF, 1.2K ohm	IC104	B0356301	IC, TA7636P, FA-1
R140	24380203	CF, 20K ohm	0	r B0356302	IC, TA7636P, FA-2
R141	24380361	CF, 360 ohm	D101,D102		
R143	24398243	CF, 24K ohm, ± 2%	D105,D106		
R145	24380101	CF, 100 ohm	D107,D108	A7246711	Diode, 1S1555
R146	24360105	CF, 1M ohm	D109,D110		2.040, 101000
R148	24360511	CF, 510 ohm	D111		
R149	24360622	CF, 6.2K ohm	D112	A7110160	Diode, 05Z7.5-Y
R150,R151	21000022	51 , 5.2K 5.IIII	D103	A7110100	Diode, 05Z6.2-Y, Zener
R152	24061321	VR, 3.3K ohm, 0.15W	D104	A7110070	
R160	24260202	OF 20K -h		A/110114	Diode, 05Z6.8-X, Zener
	24360393	CF, 39K ohm	Q105,Q110,	A6534045	Transistor, 2SA1015-Y
R161	24380132	CF, 1.3K ohm	Q112,Q114		
R162	24360221	CF, 220 ohm	Q105,Q110,	A6534021	Transistor, 2SA1015-0
R163	24360433	CF, 43K ohm (FA-2)	Q112,Q114		
	r 24360104	CF, 100K ohm (FA-1)	Q106,Q107		
R165	24360912	CF, 9.1K ohm	Q108,Q109	A6317547	Transistor, 2SC1815NEW
R167	24398391	CF, 390 ohm, ±2%	Q111,Q113	or A6317526	Transistor, 2SC1815NEW
R168	24378202	CF, 2K ohm, ± 2%	Q115		
R169	24360392	CF, 3.9K ohm	P101,P105	23164662	Plug 6P BRN
R170	24360332	CF, 3.3K ohm	P102,P108	23164671	Plug 3P BRN
R171	24360243	CF, 24K ohm	P103	23164660	Plug 7P BRN
R172	24360822	CF, 8.2K ohm	P104	23164673	Plug 3P WHT
R173,R181	24380222	CF, 2.2K ohm	P106	23164668	Plug 4P BRN
R176,R177	24360561	CF, 560 ohm	P107	23164666	Plug 5P BLK
R178,R196	24360821	CF, 820 ohm	P109	23164672	Plug 3P BRK
R182,R189	24360152	CF, 1.5K ohm	P110	23164665	Plug 5P BRN
R183,R187	24360202	CF, 2K ohm	Z101	70132037	Delay Line
R186	24360100	CF, 10 ohm	Z102	70132023	LC-660A, Filter
R190	24360271	CF, 270 ohm	X101	70138011	1H Delay Line PDL-643K
R191	24360151	CF, 150 ohm			
R198	24360361	CF, 360 ohm	SER	O LOGIC AU/ U501 70	DIO BOARD ASSY 0191781
< COILS & T	RANSFORME	iR>	< CAPACITO	ORS>	
L101	23283221	Coil, TRF4221JG, Peaking	C501,C614,	24622101	EL 100C 161/
L102, L105	23283102	Coil, TRF4102JG, Peaking	<b>C703</b>	24633101	EL, 100μF, 16V
L111	23283209	Coil, TRF4209JG, Peaking	C502,C506	24636478	EL, 0.47μF, 50V
L106,	23283820	Coil, TRF4820JG, Peaking	C503	24212471	CD, 470pF, $\pm$ 10%
L107	23283100	Coil, TRF4100JG, Peaking	C504,C505	24692103	PF, 0.01 <i>μ</i> F
L103,L104 \ L109	23283829	Coil, TRF4829JG, Peaking	C634 5	2,7032103	11, Ο.Ο Ι <i>μ</i> Γ
L109 )	22222240	Coil TRE4240 IC Beating			
L110	23283240 23283330	Coil, TRF4240JG, Peaking	C525,C529	. 2/222102	CD 0.01,,E +90% 30%
L112	23283330	Coil, TRF4330JG, Peaking Coil, TRF4560JG, Peaking	C530,C532 C534,C536	24232103	CD, 0.01 μF, +80%,-20%
L114	23283151	_ I	C628,C629		
L114	23203131	Coil, TRF4151JG, Peaking	C020,C029		

LOCATION NUMBER	PART NUMBER	DESCRIPTION	
T101,T102	70253002	PRE-AMP	
T103	70252033	TRV033	
IC101	B0325300	IC, TA7339P	
IC102	B0356720	IC, TA7672P	
IC103	B0325420	IC, TA7350P	
IC104	B0356301	IC, TA7636P, FA-1	
or	B0356302	IC, TA7636P, FA-2	
D101,D102			
D105,D106			
D107,D108	A7246711	Diode, 1S1555	
D109,D110			
D111			
D112	A7110160	Diode, 05Z7.5-Y	
D103	A7110076	Diode, 05Z6.2-Y, Zener	
D104	A7110114	Diode, 05Z6.8-X, Zener	
Q105,Q110,	A 6 E 2 4 O 4 E	Turnistan 20041045 V	
Q112,Q114	A6534045	Transistor, 2SA1015-Y	
Q105,Q110,	ACE24024	T	
Q112,Q114	A6534021	Transistor, 2SA1015-0	
Q106,Q107			
Q108,Q109	A6317547	Transistor, 2SC1815NEW, Y	
Q111,Q113	or A6317526	Transistor, 2SC1815NEW, O	
Q115			
P101,P105	23164662	Plug 6P BRN	
P102,P108	23164671	Plug 3P BRN	
P103	23164660	Plug 7P BRN	
P104	23164673	Plug 3P WHT	
P106	23164668	Plug 4P BRN	
P107	23164666	Plug 5P BLK	
P109	23164672	Plug 3P BRK	
P110	23164665	Plug 5P BRN	
Z101	70132037	Delay Line	
Z102	70132023	LC-660A, Filter	
X101	70138011	1H Delay Line PDL-643KV	
SERVO LOGIC AUDIO BOARD ASSY U501 70191781			
< CAPACITO	RS>		
C501,C614,		EL 400 E 401	
C703	24633101	EL, 100μF, 16V	
C502,C506	24636478	EL, 0.47μF, 50V	
C503	24212471	CD, 470pF, ±10%	
C504,C505 C634	24692103	PF, 0.01 μF	
C508,C517			
C525,C529			

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C507	24692473	PF, 0.047 <i>μ</i> F
C509,C510		· '
	24692393	i i
C512,C524,	24032333	11, 0.000μ
C714,C709	24636010	EL, 1 <i>μ</i> F, 50V
,		
C527,C601		
C701,C704	24633100	EL, 10μF, 16V
C710,C720		
C721		
C516,C526	0.4000000	51 00 5 10V
C531,C535	24633220	EL, 22μF, 16V
C619,C712		
C518,C617,	24636229	EL, 2.2μF, 50V
C620		•
C519,C727,	24633470	EL, 47μF, 16V
C520		,
C522,C608	24232223	CD, 0.022μF, +80%,–20%
C523	24085023	EL, 10μF, 16V
C537	24212102	CD, $0.001\mu$ F, $\pm 10\%$
C602,C621	24632220	EL, 22μF, 10V
C603,C627,	24632470	EL, 47μF, 10V
C632	24632470	ΕL, 47μΓ, 100
C604,C606	24867392	PF,3900pF
C605,C607	71593223	PF, 0.022μF
C609,C711		
C724,C716	24635479	EL, 7μF, 35V
C718		
C611,C612,		00.100.5 . 100/
C705	24432101	CD, 100pF, ±10%
C615,C708	24632101	EL, 100μF, 10V
C702	24212152	CD, 1500pF, ±10%
C706	24692273	
C713	24212562	
C715	24212102	
C717	24432560	
C719	24212821	CD, 820pF, ±10%
C722	24633221	
C725	24212122	
C726	24867682	
C728	24212472	
C729	24214221	
C730	24867124	
< RESISTO		11, 0.1 εμπ
	24360122	CF, 1.2K ohm
	24360122	
R503,RY18,		or, or o onni
RY19	24360432	CF, 4.3K ohm
R504,R530	24380102	CF, 1K ohm
	_ 7000102	

LOCATION NUMBER	PART NUMBER	DESCRIPTION
DE36 DE72 )		
R536,R573 R697,R671		
·	24380102	CF, 1K ohm
R737,RL21		
RY07		
R505,R506		
R543,R547		Į
R570,R589		
R598,R615	24380103	CF, 10K ohm
R677,R696		i
R722,RL22		
RY09,RY17		
R743		
R507,R518		
R537,R539	2/13/2010/	CF, 100K ohm
R540,R541	24300104	OL, TOOK OIIIII
R565,R566	)	
R508	24380471	CF, 470 ohm
R509	24380624	CF, 620K ohm
R510,R588	04000510	OF E 11/2
R765	24380512	CF, 5.1K ohm
R511,R532	24380392	CF, 3.9K ohm
R512,R531	)	
R644,R645	1	
R713,R714	24380472	CF, 4.7K ohm
R736,RY35		
R513,R520,	)	
R741	24380272	CF, 2.7K ohm
1	)	
R514,R607	24380223	CF, 22K ohm
R608,RY31	2/270124	CE 130K ahm + 2%
R515	24378134	CF, 130K ohm, ±2%
R516	24378512	CF, $5.1$ K ohm, $\pm 2\%$
R517,R616	24360513	CF, 51K ohm
R632	J	
R519,R715		
R521,R724		
R522	24360752	CF, 7.5K ohm
R523,R585		
R613,R627		
R631,R642	1	
R648,R649		
R661,R673	24360103	CF, 10K ohm
R679,R681		
R682,R683		
R725,RY05		
RY16	J	
R525	24380912	CF, 9.1K ohm
R528,R590	0.10001==	OF 4.7K - b
R640,R641	} 24360472	CF, 4.7K ohm

DESCRIPTION   NUMBER   PART   NUMBER   DESCRIPTION
R665,R672         24360472         CF, 4.7K ohm           R684,R685         24360472         CF, 4.7K ohm           R686,R687         R717,RY14         R529,R723         24380332         CF, 3.3K ohm           R533         24380152         CF, 1.5K ohm         CF, 27K ohm           R535,R749         24380273         CF, 27K ohm           R542,R544         R584,R698         24380473         CF, 47K ohm           R699         24380303         CF, 30K ohm           R602,R605         24380302         CF, 3.3K ohm           R719,RY04         24380303         CF, 30K ohm           R649,RL23         24380204         CF, 200K ohm           R549,RL23         24380204         CF, 200K ohm           R550         70421162         VR, 500K ohm, 1/5W           R551,R552         24061150         VR, 470K ohm, 0.15W           R560,R670         R676,R731         R763,RY32           R561         24380153         CF, 15K ohm           R563         24380154         CF, 510K ohm           R564,R574         RY13         24380183         CF, 18K ohm           R567,R620         24380183         CF, 18K ohm           R569         2438013         CF, 20K ohm, ±2%
R684,R685         24360472         CF, 4.7K ohm           R686,R687         R717,RY14         R529,R723         24380332         CF, 3.3K ohm           R533         24380152         CF, 1.5K ohm         R535,R749           R542,R544         R584,R698         24380273         CF, 27K ohm           R699         R545         24380303         CF, 30K ohm           R602,R605         R719,RY04         24380303         CF, 33K ohm           R548,R562         24380753         CF, 75K ohm           R549,RL23         24380204         CF, 200K ohm           R550         70421162         VR, 500K ohm, 1/5W           R551,R552         24061150         VR, 470K ohm, 0.15W           R560,R670         R676,R731         VR, 330K ohm, 0.15W           R561         24380153         CF, 15K ohm           R563         24380153         CF, 15K ohm           R564,R574         24380164         CF, 510K ohm           R564,R574         24380183         CF, 18K ohm           R568         24380183         CF, 18K ohm           R572         2439203         CF, 20K ohm, ±2%           R575         2439203         CF, 20K ohm, ±2%           R576         24398222         CF,
R686,R687       R717,RY14         R529,R723       24380332       CF, 3.3K ohm         R533       24380152       CF, 1.5K ohm         R535,R749       24380273       CF, 27K ohm         R542,R544       R584,R698       24380473       CF, 27K ohm         R699       R545       24380303       CF, 30K ohm         R602,R605       R719,RY04       24360332       CF, 3.3K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       24380153       CF, 15K ohm         R563       24380153       CF, 15K ohm         R564       R24380153       CF, 16K ohm         R563       24380514       CF, 510K ohm         R564       R563       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203 <t< td=""></t<>
R717,RY14       R529,R723       24380332       CF, 3.3K ohm         R533       24380152       CF, 1.5K ohm         R535,R749       24380273       CF, 27K ohm         R542,R544       R584,R698       24380473       CF, 47K ohm         R699       R545       24380303       CF, 30K ohm         R602,R605       24360332       CF, 3.3K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R560,R670       R676,R731       24380153       CF, 15K ohm         R563       24380153       CF, 160K ohm         R563       24380164       CF, 160K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 20K ohm, ±2%         R576       24398222       CF, 22K ohm, ±2%         R579       24360242<
R529,R723 R729       24380332       CF, 3.3K ohm         R533       24380152       CF, 1.5K ohm         R535,R749       24380273       CF, 27K ohm         R542,R544 R584,R698 R699       24380473       CF, 47K ohm         R699       24380303       CF, 30K ohm         R602,R605 R719,RY04       24380753       CF, 75K ohm         R548,R562 R549,RL23       24380204 24380204       CF, 200K ohm         R550       70421162 70421162       VR, 500K ohm, 1/5W         R553 R560,R670 R676,R731 R763,RY32       24380153 24380153       CF, 15K ohm         R563 R564,R574 RY13       24380164 24380163 CF, 16K ohm       CF, 16OK ohm         R567,R620 R568 R5438021       24360183 2438031 CF, 16K ohm       CF, 16K ohm         R569 R572 R575 R576 R576 R578 R579 24380204 R579 R580,R667 R668 R581 R582 R581 R582 P4380123 P4380203 R583,R610 R583,R610 R583,R610 P4380334 CF, 2480334 CF, 22K ohm       CF, 22K ohm         R581 R583,R610 R586,R596 R738       24380334 P4380334 CF, 330K ohm
R729
R729       24380152       CF, 1.5K ohm         R535,R749       24380273       CF, 27K ohm         R542,R544       R584,R698       24380473       CF, 47K ohm         R699       R545       24380303       CF, 30K ohm         R602,R605       24360332       CF, 3.3K ohm         R719,RY04       24380753       CF, 75K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm, 1/5W         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       R763,RY32         R561       24380153       CF, 15K ohm         R563       24380153       CF, 15K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24380183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398222       CF, 2.2K ohm, ±2%         R579       24360242       CF, 2.2K ohm
R535,R749       24380273       CF, 27K ohm         R542,R544       R584,R698       24380473       CF, 47K ohm         R699       R545       24380303       CF, 30K ohm         R602,R605       24380332       CF, 3.3K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm, 1/5W         R550       70421162       VR, 500K ohm, 0.15W         R553       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       CF, 15K ohm         R563       24380153       CF, 160K ohm         R563       24380164       CF, 160K ohm         R563       24380183       CF, 18K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24380183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398222       CF, 2.2K ohm, ±2%         R576       24380224       CF, 2.2K ohm         R579       24380224       CF, 2.2K ohm <t< td=""></t<>
R542,R544       24380473       CF, 47K ohm         R699       24380303       CF, 30K ohm         R602,R605       24380303       CF, 30K ohm         R719,RY04       24360332       CF, 33K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm, 1/5W         R550       70421162       VR, 500K ohm, 0.15W         R553       24061150       VR, 470K ohm, 0.15W         R563,R731       24380153       CF, 15K ohm         R563,R732       24380153       CF, 15K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R575       24398203       CF, 20K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R579       24360204       CF, 20K ohm         R579       24380824       CF, 820K ohm         R581       24380123       CF, 12K ohm         R582       24380203
R584,R698       24380473       CF, 47K ohm         R699       24380303       CF, 30K ohm         R602,R605       24360332       CF, 33K ohm         R719,RY04       24380753       CF, 75K ohm         R548,R562       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       CF, 15K ohm         R763,RY32       24380164       CF, 160K ohm         R563       24380153       CF, 15K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 18K ohm         R569       24380163       CF, 16K ohm         R571       24378203       CF, 20K ohm, ±2%         R575       24398203       CF, 20K ohm, ±2%         R576       24398222       CF, 2.4K ohm, ±2%         R579       2438022       CF, 12K ohm         R579       2438024       CF, 820K ohm         R580,R667       R68       24380123       CF, 12K ohm         R581
R699       R545       24380303       CF, 30K ohm         R602,R605       24360332       CF, 3.3K ohm         R719,RY04       24360332       CF, 75K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R560,R670       R676,R731       VR, 330K ohm, 0.15W         R560,R670       R676,R731       CF, 15K ohm         R763,RY32       24380153       CF, 15K ohm         R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R569       24380163       CF, 16K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       2438022       CF, 20K ohm         R579       24380824       CF, 820K ohm         R580,R667       R68       24380123       CF, 12K ohm      <
R545       24380303       CF, 30K ohm         R602,R605       24360332       CF, 3.3K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       CF, 15K ohm         R763,RY32       R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R575       24398203       CF, 20K ohm, ±2%         R576       24398222       CF, 2.4K ohm         R579       24360204       CF, 20K ohm         R579       24380824       CF, 820K ohm         R580,R667       24380123       CF, 12K ohm         R581       24380203       CF, 24K ohm         R583,R610
R602,R605       24360332       CF, 3.3K ohm         R548,R562       24380753       CF, 75K ohm         R549,RL23       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       24380153       CF, 15K ohm         R763,RY32       CF, 160K ohm       CF, 510K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R579       24380204       CF, 20K ohm         R580,R667       24380242       CF, 24K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R5
R719,RY04 R548,R562
R719,RY04   R548,R562
R549,RL23       24380204       CF, 200K ohm         R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       CF, 15K ohm         R763,RY32       24380153       CF, 15K ohm         R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380913       CF, 91K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R575       24398203       CF, 20K ohm, ±2%         R576       24398222       CF, 2.4K ohm, ±2%         R579       24360204       CF, 200K ohm         R579       24380824       CF, 820K ohm         R580,R667       24380123       CF, 12K ohm         R581       24380123       CF, 20K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       24380334
R550       70421162       VR, 500K ohm, 1/5W         R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       CF, 15K ohm         R763,RY32       24380153       CF, 15K ohm         R561       24380164       CF, 16OK ohm         R563       24380183       CF, 18K ohm         R564,R574       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R569       24380163       CF, 16K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24380203       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       24380334       CF, 330K ohm
R551,R552       24061150       VR, 470K ohm, 0.15W         R553       24061149       VR, 330K ohm, 0.15W         R560,R670       R676,R731       24380153       CF, 15K ohm         R763,RY32       CF, 15K ohm       CF, 15K ohm         R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 20K ohm, ±2%         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.0K ohm         R578       24360204       CF, 200K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R586,R596       24380334       CF, 330K ohm
R553       24061149       VR, 330K ohm, 0.15W         R560,R670       24380153       CF, 15K ohm         R763,RY32       24380153       CF, 15K ohm         R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R579       24360204       CF, 20K ohm         R579       24380824       CF, 820K ohm         R580,R667       24380123       CF, 12K ohm         R581       24380123       CF, 20K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       CF, 330K ohm
R560,R670       24380153       CF, 15K ohm         R763,RY32       24380153       CF, 15K ohm         R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24380203       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       CF, 2380334       CF, 330K ohm
R676,R731       24380153       CF, 15K ohm         R763,RY32       24380164       CF, 160K ohm         R561       24380514       CF, 510K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 16K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       CF, 230K ohm         R738       24380334       CF, 330K ohm
R763,RY32         R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 16K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       R738       24380334       CF, 330K ohm
R561       24380164       CF, 160K ohm         R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         RY13       24360183       CF, 18K ohm         R567,R620       24360183       CF, 16K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R579       24380824       CF, 1.2K ohm         R580,R667       24380242       CF, 2.4K ohm         R581       24380123       CF, 2.4K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       R738       24380334       CF, 330K ohm
R563       24380514       CF, 510K ohm         R564,R574       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24380123       CF, 2.4K ohm         R581       24380123       CF, 2.4K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       R738       24380334       CF, 330K ohm
R564,R574 RY13       24380183       CF, 18K ohm         R567,R620       24360183       CF, 18K ohm         R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       R738       CF, 330K ohm
RY13  R567,R620  R568  24380183  CF, 18K ohm  R568  24380163  CF, 16K ohm  R569  24380913  CF, 91K ohm  R571  24378203  CF, 20K ohm, ±2%  R572  24398203  CF, 20K ohm, ±2%  R575  24398242  CF, 2.4K ohm, ±2%  R576  24398222  CF, 2.2K ohm, ±2%  R577  24360204  CF, 200K ohm  R578  24380122  CF, 1.2K ohm  R579  24380824  CF, 820K ohm  R580,R667  R668  R581  24380123  CF, 24K ohm  R582  24380123  CF, 2.4K ohm  R583,R610  24360223  CF, 2.4K ohm  R586,R596  R738  24380334  CF, 330K ohm
RY13 R567,R620 24360183 CF, 18K ohm R568 24380163 CF, 16K ohm R569 24380913 CF, 91K ohm R571 24378203 CF, 20K ohm, ±2% R572 24398203 CF, 20K ohm, ±2% R575 24398242 CF, 2.4K ohm, ±2% R576 24398222 CF, 2.2K ohm, ±2% R577 24360204 CF, 200K ohm R578 24380122 CF, 1.2K ohm R579 24380824 CF, 820K ohm R580,R667 R668 CF, 24380123 CF, 24K ohm R581 24380123 CF, 12K ohm R582 24380203 CF, 20K ohm R583,R610 24360223 CF, 20K ohm R586,R596 R738 24380334 CF, 330K ohm
R568       24380163       CF, 16K ohm         R569       24380913       CF, 91K ohm         R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 20K ohm         R586,R596       R738       CF, 330K ohm
R569 24380913 CF, 91K ohm R571 24378203 CF, 20K ohm, ±2% R572 24398203 CF, 20K ohm, ±2% R575 24398242 CF, 2.4K ohm, ±2% R576 24398222 CF, 2.2K ohm, ±2% R577 24360204 CF, 200K ohm R578 24380122 CF, 1.2K ohm R579 24380824 CF, 820K ohm R580,R667 R668 CF, 24380123 CF, 2.4K ohm R581 24380123 CF, 2.4K ohm R582 24380203 CF, 20K ohm R583,R610 24360223 CF, 20K ohm R586,R596 R738 CF, 330K ohm
R571       24378203       CF, 20K ohm, ±2%         R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       R738       CF, 330K ohm
R572       24398203       CF, 20K ohm, ±2%         R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       R738       24380334       CF, 330K ohm
R575       24398242       CF, 2.4K ohm, ±2%         R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       R738       CF, 330K ohm
R576       24398222       CF, 2.2K ohm, ±2%         R577       24360204       CF, 200K ohm         R578       24380122       CF, 1.2K ohm         R579       24380824       CF, 820K ohm         R580,R667       24360242       CF, 2.4K ohm         R581       24380123       CF, 12K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       R738       24380334       CF, 330K ohm
R577 24360204 CF, 200K ohm R578 24380122 CF, 1.2K ohm R579 24380824 CF, 820K ohm R580,R667 R668 24380123 CF, 2.4K ohm R581 24380123 CF, 12K ohm R582 24380203 CF, 20K ohm R583,R610 24360223 CF, 22K ohm R586,R596 R738 24380334 CF, 330K ohm
R578 24380122 CF, 1.2K ohm R579 24380824 CF, 820K ohm R580,R667 R668 24360242 CF, 2.4K ohm R581 24380123 CF, 12K ohm R582 24380203 CF, 20K ohm R583,R610 24360223 CF, 22K ohm R586,R596 R738 24380334 CF, 330K ohm
R579     24380824     CF, 820K ohm       R580,R667     24360242     CF, 2.4K ohm       R668     24380123     CF, 12K ohm       R581     24380203     CF, 20K ohm       R582     24380203     CF, 20K ohm       R583,R610     24360223     CF, 22K ohm       R586,R596     24380334     CF, 330K ohm
R580,R667       24360242       CF, 2.4K ohm         R668       24380123       CF, 12K ohm         R581       24380123       CF, 20K ohm         R582       24380203       CF, 20K ohm         R583,R610       24360223       CF, 22K ohm         R586,R596       24380334       CF, 330K ohm
R668
R581 24380123 CF, 12K ohm R582 24380203 CF, 20K ohm R583,R610 24360223 CF, 22K ohm R586,R596 R738 24380334 CF, 330K ohm
R582 24380203 CF, 20K ohm R583,R610 24360223 CF, 22K ohm R586,R596 R738 24380334 CF, 330K ohm
R583,R610 24360223 CF, 22K ohm R586,R596 R738  24380334 CF, 330K ohm
R586,R596 R738 24380334 CF, 330K ohm
R738
R/38 )
R587 24380622 CF. 6.2K ohm
R591,R624 } 24360104 CF, 100K ohm
RY20,RY21
R593,R709 24360124 CF, 120K ohm

LOCATION	PART	
NUMBER	NUMBER	DESCRIPTION
R597	24380302	CF, 3K ohm
R599	24380682	CF, 6.8K ohm
R601,R604	24360153	CF, 15K ohm
R603,R606 )	24360682	CE 6 OK ohm
R726,R727 ∫	24300082	CF, 6.8K ohm
R609	24360474	CF, 470K ohm
R611,R718	24360473	CF, 47K ohm
R612,RY29	24360163	CF, 16K ohm
R614	24380333	CF, 33K ohm
R618	24360302	CF, 3K ohm
R619	24378683	CF, 68K ohm, $\pm 2\%$
R623,R735	24360102	CF, 1K ohm
R625,R669 R675	24360203	CF, 20K ohm
R626	24360392	CF, 3.9K ohm
R628	24360101	<i>'</i>
R630,R633	24360161	CF, 160 ohm
R634,R762		
RY28	24380101	CF, 100 ohm
R636	24380222	CF, 2.2K ohm
R637	24360681	CF, 680 ohm
R651,R652	24061420	VR, 1K ohm, 0.15W
R701	24380100	CF, 10 ohm
R702,R703	24380104	CF, 100K ohm
R704,R705 }	24380562	CF, 5.6K ohm
R715		
R706	24380222	CF, 2.2K ohm
R707		CF, 24K ohm
		CF, 150K ohm
R710	24380182	CF, 1.8K ohm
R716	24360563	CF, 56K ohm
R720	24360243	CF, 24K ohm
R728,R730		'
R739	24380394	CF, 390K ohm
R740,RY03		
R732,RY06 }	24380105	CF, 1M ohm
RY08		
R752	24061138	VR, 4.7K ohm, 0.15W
R753	24061148	·
R760	24380301	CF, 300 ohm
R761	24941229	
R764	70420013	•
RL20	24380121	CF, 120 ohm
RL25	24000911	,
RY01	24380304	,
RY12	24380474	,
RY25	24398103	
RY26	24398113	CF, 11K ohm, ± 2%

LOCATION NUMBER	PART NUMBER	DESCRIPTION		LOCATION NUMBER	PART NUMBER	DESCRIPTION
RY27	24398473	CF, 47K ohm, ±2%	$\neg \mid \lceil$	Q619,Q620 [		
RY30	24360221	CF, 220 ohm		Q625,Q626	A6317567	NPN, Tranistor
RY33	24380823	CF, 82K ohm	11	Q633,Q634		2SC1815-GR, FA
RY34	24380364	CF, 360K ohm	11	Q638,Q643		
RY37	24360244	CF, 240K ohm		Q644,Q648		
11107	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2., =		Q649,Q703		
< SEMICONE	OUCTORS>			Q708,Q709		
IC501	B0430810	IC, TM4217P, Digital		Q710		
IC502,IC503	B0351500	IC, TA75902P, OP-AMP		Q505,Q508)		
IC601	B0403539	IC, TMP4320P-6205		Q514,Q522		
IC701	B0312500	IC, TA7137P	11	Q526,Q611	A6534045	PNP, Transistor,
IC702	B0325080	IC, TA7325P, Dual		Q613,Q618		2SA1015-Y, FA
Q504,Q506)		•		Q655		
Q507,Q509				Q514,Q522	40524021	PNP, Transistor
Q510,Q511				Q618	A6534021	2SA1015-O, FA
Q512,Q515				Q514,Q522	10504000	PNP, Transistor
Q518,Q521				Q618	A6534063	2SA1015-GR, FA
Q523,Q524				Q516	A6848520	NPN, Transistor, 2D880-Y
Q528,Q529				Q517,Q520	]	
Q612,Q614				Q628,Q629		
Q615,Q616	A6317547	NPN, Transistor,		Q637,Q641	A6533240	PNP, Transistor, 2SA966-Y
Q619,Q620	, , , , , , , , , , , , , , , , , , , ,	2SC1815-Y, FA		Q645,Q646		
Q625,Q626		,		Q650,Q651		
Q633,Q634				Q519	A671666H	NPN, Transistor,
Q638,Q643						2SC496-Y, X, TV
Q644,Q648				Ω653	A6325540	NPN,Transistor,2SC2236-Y
Q649,Q654				Q636,Q640	A6841900	NPN,Transistor,2SD549
Q660,Q661				Ω704,Ω705	A6325825	NPN,Transistor,2SC2240GR
Ω703,Ω708				Q706	A6533625	NPN,Transistor,2SA970GR
Ω709,Ω710	}			Q713	A6319302	NPN, Transistor,
Ω504,Ω509				!		2C1959-Y, FA
Q510,Q511				D501,D502	)	
Q512,Q515				D503,D505		
Q523,Q524				D506,D507		
Q528,Q615				D508,D510		
Q619,Q620				D511,D512		
Q625,Q626	Y	NPN, Transistor,		D513,D514		
Q633,Q634		2SC1815-O, FA		D515,D516		
Q638,Q643	į.			D517,D518		
Q644,Q648				D519,D521		
Q649,Q703	1			D522,D601	A7246711	Diode, 1S1555V
Q708,Q709				D603,D604	A/240/11	Diude, 1313334
Q710	}			D605,D606		
Q504,Q509				D607,D608		
Q510,Q511				D609,D610		
Q512,Q515				D613,D614		
Q523,Q524	1			D615,D616	1	
Q528,Q615				D617,D618	J	

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
D619,D622 D624,D701 D702,D703 D704	A7246711	Diode, 1S1555V		
D520	A7110261	Diode, 05Z9.1-X, Zener		
D623	A7109362	Diode, 05Z3.6-X, Zener		
D623	A7109363	Diode, 05Z3.6-Y, Zener		
D623	70115109	Diode, RD3.9EB2, Zener		
< COIL & TR	ANSFORMER	>		
L601	23261050	Coil, AZ9246D, Choke		
L701	23283391	Coil, TRF4391JG, Peaking		
T701	70214002	Erase, OSC Trans		
< MISCELLA	NEOUS>			
Z601	70153031	Ceramic Resonator KBR-455H		
Z602	24000942	Res Block, T-6		
Z603	70427013	Res Block, P-7		
Z701	70212019	Trap Coil, 65 kHz		
P501,P505				
P602,P614	23164672	Plug, 3P, BLK		
P701,P704				
P502,P605				
P608,P611	23164673	Plug, 3P, WHT		
P703				
P503,P504				
P601,P609 P612,P702	23164671	Plug, 3P, BRN		
P506,P603 P610	23164668	Plug, 4P, BRN		
P507,P604	23164665	Plug, 5P, BRN		
P606	23164655	Plug, 12P, BRN		
P607	23164658	Plug, 9P, BRN		
P613	23164659	Plug, 8P, BRN		
P651	70163034	2.5MARU Jack, J2501		
P706,P707	70163054	Phono Jack Print, K (SW)		
POWF	R BOARD AS	SSY U801, 70191796		
<capacitors></capacitors>				
C801	70415068	EL, 6800μF, 35V 69W		
[	or 70415069	, , , , , , , , , , , , , , , , , , , ,		
C802,C803	1	<b>a. a. a. a. a. a. a. a.</b>		
C804,C805	· 24232473	CD, 0.047μF +80,–20%		
C806	24633470	EL, 47μF, 50V		
C807	24232103	CD, 0.01 μF, +80%,-20%		
C808,C817	24634470	EL, 47μF, 25V		

LOCATION NUMBER	PART NUMBER	DESCRIPTION
C809,C810	24634100	EL, 10μF, 25V
C811	24634331	EL, 330μF, 25V
C816	24633222	EL, 0.0022μF, 16V
C818	24633470	EL, 47μF, 16V
C820	24641101	
C821	24636470	EL, 47μF, 50V
C830	24098011	·
< RESISTORS	<b>6</b> >	
R801	24963752	OMF, 7.5K ohm, 1W
		CF, 180 ohm
R803	24360102	
		CF, 1.5K ohm
		CF, 1.2K ohm
	24360222	
R806		Fusible, 8.2 ohm, 1/2W
R807		
R808		CF, 2.7K ohm
		CF, 47K ohm
R809		CF, 56K ohm
		CF, 3.3K ohm
R811,R823		CF, 6.8K ohm
R812		CF, 4.7K ohm
		OMF, 1.5K ohm, 1/2W
R814	24360223	CF, 22K ohm
R815	24962102	· · ·
	24963391	,
R818	24963472	
R819		CC, 1.2K ohm, 1/4W
	24360103	CF, 10K ohm
R822	24360153	CF, 15K ohm
R826	24360123	CF, 12K ohm
R851	24061318	VR, 1K ohm, 0.15W
< SEMICONE	OUCTORS>	
Q801	A6848510	NPN, Transistor,
		2SD880-0
Q802	A6317526	NPN, Transistor,
		2SC1815-O, FA
Ø803	A6533730	PNP, Transistor,
		2SA1012-Y, FA
Q806,Q808 )	A 6 2 1 7 7 4 7	NPN, Transistor,
Q810 J	A6317547	2SC1815-Y, FA
Q807	A6319283	NPN, Transistor,
1		2SC1959-O, FA
Q809	A650246A	PNP, Transistor,
		2SA496-Y, X
Q811	A6848510	NPN, Transistor, 2SD880-0
Q812	A6848520	NPN, Transistor, 2SD880-Y
L		

LOCATION NUMBER	PART NUMBER	DESCRIPTION
Q813	A6534021	PNP, Transistor
		2SA1015-0, FA
Q814	A6319302	NPN, Transistor,
		2SC1959-Y, FA
D801	70115160	Rectifier, D5FB10F
D805,D815	A7246711	Diode, 1S1555 (TV)
D806	A7246602	Diode, 1S1553 (TV)
D807	A7286107	Diode, 02Z6.2A, Zener
D808	A7109202	Diode, 05Z2.0X, Zener
D811,D812		
D813,D814	A7568521	Diode, 1S1885, FA
D817		
D816	A7110018	Diode, 05Z5.6-Z, Zener
D818	A7568754	Diode, 1S1887A, FA-1
D819	23115878	Diode, UPC574JC, Zener
<transfo< td=""><td>RMER&gt;</td><td></td></transfo<>	RMER>	
T801	23211997	TRS, Line Filter, TRF3004C
T802	70213067	Transformer, VPW9600S
< MISCELLA	NEOUS>	
S801	70145192	Switch, ICIP
F801,F804	23144125	Fuse, 0.5A, 250V
F802	70144029	Fuse, 2A, 250V
F803	23144164	Fuse, 1.25A, 250V
P801	70168058	Power Cord
P802,P803	23164966	Plug 3P
P804	23164671	Plug 3P, BRN
P805	23164665	Plug 5P, BRN
P806	23164668	Plug 4P, BRN
P807	23164666	Plug 5P, BLK
P808	23164662	Plug 6P, BRN
P809	23164658	Plug 9P, BRN
P810	23164669	Plug 4P, BLK
		·
DC/DC		R BOARD ASSY U901
	701	91806
< CAPACIT	ORS>	
C901	70415072	EL, 470μF, 35V, 04W
C902	70415073	EL, 220μF, 35V, 04W
C903	24692473	PF, 0.047μF, 50V
C904	24232103	
< RESISTOR	R\$>	
R901	24360680	CF, 68 ohm
R902		
	24941335	CC, 3.3M ohm, 1/4W
R903	24941335 24360220	

LOCATION NUMBER	PART NUMBER	DESCRIPTION		
R905	24360153	CF, 15K ohm		
R906	24360182	CF, 1.8K ohm		
R907,R908	24332228	Metal, 0.022 ohm, 1W		
R909	24360221	CF, 220 ohm		
R910	24360123	CF, 12K ohm		
R951	24061134	VR, 1K ohm, 0.15W		
SEMICONE	NICTORS \			
1C903	70119212	Voltage Regulator, UPC305C		
Q901	A6533730	PNP, Transistor, 2SA1012-Y		
Q902,Q904		PNP, Transistor,		
4302,4304	A0303141	2SA562TM-Y, FA		
D001	70115164	Diode, 30DF1		
D901		· ·		
D902	A7110261	Diode, 05Z9.1X, Zener		
<coils></coils>				
	70211045			
L902	70211043	Coil, 0.18MH, 2.5A Choke		
050000		A COV 11004 704 04 702		
		ASSY U961, 70191782		
< CAPACITO		CD 0.01E . 900/ 200/		
C961	24232103	CD, 0.01 μF, +80%, –20%		
C962,C963	04040400	CD 1000 F + 100/		
C967,C972	24212102	CD, 1000pF, ±10%		
C973	0.405.000	00.00.5		
C964,C965		CD, 62pF		
C966	24436151	CD, 105pF		
C968	24436471	CD, 470pF		
C969	24692152	PF, 1500pF		
C970	24436331	CD, 330pF		
C971	24353101	CD, 100pF		
< RESISTOR	IS>			
R961	24380221	CF, 220 ohm		
R962,R966	24380122	CF, 1.2K ohm		
<b>R970</b>	2,000122	or, narronn		
R963,R977	24380393	CF, 39K ohm		
<b>R978</b>	£ 1000000	or, ook omn		
R964,R973	24380472	CF, 4.7K ohm		
R975,R969	273004/2	Or, T./ IX OHIII		
R965	24380391	CF, 390 ohm		
R967,R971	24380823	CF, 82K ohm		
R968,R972 R976	24380153	CF, 15K ohm		
R974,R975	24380123	CF, 12K ohm		
	<semiconductors></semiconductors>			
Q961,Q962				
Q963,Q964 Q965,Q966 Q967	A6317547	NPN, Transistor, 2SC1815-Y, FA		

LOCATION NUMBER	PART NUMBER	DESCRIPTION
Q961,Q962		
Q963,Q964	A6317526	NPN, Transistor,
Q965,Q966	A0317320	2SC1815-O, FA
Q967		25C1615-0, FA
Q961,Q962		
Q963,Q964		
Q965,Q966	A6317567	· · · · · · · · · · · · · · · · · · ·
Ω967		2SC1815-GR, F
Q961,Q962		
Q963,Q964		
<b>l</b>	A6317567	NPN, Transistor,
Q965,Q966		2SC1815-GR, F
Q967		
Q968	A6534045	PNP, Transistor,
		2SA1015-GR, FA
Ω968	A6534021	PNP, Transistor,
		2SA1015-O, FA
Q968	A6534045	PNP, Transistor,
		2SA1015-GY, FA
D961	A7246711	Diode, 1S1555V
   <transfo< td=""><td>RMFR~</td><td></td></transfo<>	RMFR~	
T961	23252969	Coil, TRF7035
1001	20202000	3011, 1111 7 3 3 3
   < MISCELLA	ANEOUS>	
1	70153029	Crystal, 2.986 MHz
P961	23164665	, · · ·
	20104000	riug or , britt
LOGIC CON	ITROL BOAR	D ASSY UL01, 70191783
< CAPACITO	ORS>	
CLO1	24636229	EL, 2.2μF, 50V
		, ,
< RESISTOR	RS>	
RLO1,RLO2	24360221	CF, 220 ohm
RLO3	24360682	CF, 6.8K ohm
RLO4	24360161	CF, 160 ohm
RLO5,RLO6		CC, 680 ohm, 1/4W
RLO8		CF, 4.7K ohm
	_,,,,,,,	
SEMICON	IDUCTORS>	
QLO1	A6534045	PNP, Transistor,
====	70004040	,
	~ ACED4001	2SA1015-Y, FA
	or A6534021	2SA1015-0, FA
DLO2,DLO4	> 70115167	LED, YEL Stanley, PY5608S
DLO5,DL09	J	•
DLO7	70115166	LED, RED Stanley, BR5628S
DL13	A8600607	LED, TLR113A
DL17	A8605666	LED, TLG113A

LOCATION NUMBER	PART NUMBER	DESCRIPTION
< MISCELLA	ANEOUS>	
SL01,SL02	]	
SL03,SL04		
SL05,SL07	70145119	Switch Tack
SL09		
PL01	23164659	Plug 8P, BRN
PLO2	23164655	- 1
PL03	23164672	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
1 200	20104072	riug or , beix
FLN	MOTOR DRIVI	E UT01, 70191784
< CAPACIT	ORS>	
	24634471	EL, 330μF, 25V
CL82,CL83	24232103	·
		· ·
< RESISTO	RS>	
RL81	24360153	CF, 15K ohm
RL82	24360472	CF, 4.7K ohm
RL83,RL84	24360103	CF, 10K ohm
RL85	24941821	
RL86		
< SEMICON	IDUCTORS>	
QL81	A6317567	NPN, Transistor,
		2SC1815-GR, FA
	or A6317581	NPN, Transistor,
		2SC1815-BL, FA
QL82	A6534021	PNP, Transistor,
		2SA1015-O, FA
İ	or A6534045	·
		2SA1015-Y, FA
	or A6534063	PNP, Transistor,
		2SA1015-GR, FA
QL83	A6325540	
QL84	A6533730	
QL85	A6848530	·
QL86	A6533240	
DL81,DL82		.,
DL83,DL84		Diode, 1S1555, TV
DL86,DL87		., . = . =
DL85	A7110040	Diode, 05Z5.1X
	or A7110041	•
		•
< MISCELL	ANEOUS>	
PL81	23164669	Plug, 4P, BLK
PL82	24164671	
		<b>-</b>

LOCATION NUMBER	PART NUMBER	DESCRIPTION	
TIMER CONTROL BOARD ASSY UX01, 70191785			
< CAPACITO	RS>		
CX01	70415087	S. Capa. 0.22μF, +80%,–20%	
CX02,CX04	0.4000400	00.004.5.000/.000/	
CX05,CX07	24232103	CD, 0.01μF, +80%,–20%	
CX03,CX06	24633100	EL, 10μF, 16V	
CX08	24632101	EL, 100μF, 10V	
CX09,CX10	24432101	CD, 100pF, ±10%	
CX11	24432391	CD, 390pF, ±10%	
CX12	24232103	CD, 0.01 μF	
CX13	24636229	EL, 2.2μF, 50V	
< RESISTOR	<b>S</b> >		
RX01	24360102	CF, 1K ohm	
RXO2	24380562	CF, 5.6K ohm	
RX03	24380201	CF, 200 ohm	
RX04	24380102	CF, 1K ohm	
RX05	24380561	CF, 560 ohm	
RX06,RX11	24380152	CF, 1.5K ohm	
RX07	24380332	CF, 3.3K ohm	
RX08,RX12 RX14,RX20	24380103	CF, 10K ohm	
RX41		CF, 33k ohm	
RX10	24380362	CF, 3.6K ohm	
RX13		CF, 3.9K ohm	
RX15	24380223	CF, 22K ohm	
RX16		CF, 12K ohm	
RX19,RX22 RX23,RX24 RX25,RX33 RX36,RX39	24380513	CF, 5IK ohm	
RX26	24360101	CF, 100 ohm	
RX27,RX28	24380101	CF, 100 ohm	
RX30,RX31 RX32,RX47	24380222	CF, 2.2K ohm	
RX34,RX35 RX37,RX38 RX42	24360513	CF, 51K ohm	
RX40	24380472	CF, 4.7K ohm	
RX43		CF, 330K ohm	
RX44,RX45			
RX46	24360222	CF, 2.2K ohm	
RX48	24360103	CF, 10K ohm	
RX49		CF, 1K ohm	
< SEMICON		.,	
ICX01		IC, TMP4320P-6203	
QX02,QX04)			
QX05,QX06	A6332430	NPN, Transistor, 2SC2458Y	

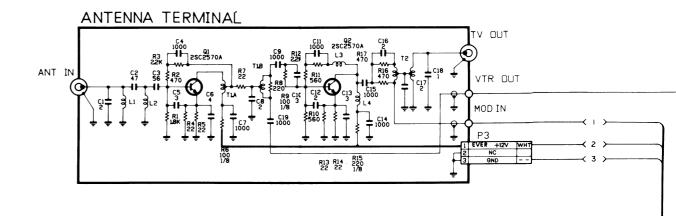
LOCATION NUMBER	PART NUMBER	DESCRIPTION
QX07,QX08		
QX09,QX10	A6332430	NPN, Transistor, 2SC2458Y
QX12		
QX02,QX04		
QX05,QX06		
QX07,QX08	70114187	NPN, Transistor, 2SC2785
QX09,QX10		
QX12		
OX03	A6509141	PNP, Transistor,
		2SA562TMY
DX01	A7110041	Diode, 05Z5.1Y, Zener
0	r A7110042	Diode, 05Z5.1Z, Zener
DX02,DX05		
DX06,DX07	A7046711	D: 101EEE /T\/\
DX08,DX09	A7246711	Diode, 1S1555 (TV)
DX10		
DX03	A7568521	Diode, 1S1885, FA
DX04	A7109433	Diode, 05Z4.3-Y, Zener
DX11	A7110076	Diode, 05Z6.2-Y, Zener
<coils></coils>		
LX01	23261050	Coil, AZ9246D, Choke
< MISCELLA	NEOUS>	
ZX01	70153031	Ceramic Resonator, 455 kHz
ZX02,ZX03	24000916	Res. Block P-4
ZX04	70427020	Res. Block P-7
ZX05	24094863	Res. Block P-4
PX01	23164670	Plug 4P, WHT
PX02	23164673	Plug 3P, WHT
PX03	23164671	Plug 3P, BRN
PX04	23164669	Plug 4P, BLK
PX05	23164668	Plug 4P, BRN
710	IED 051 507	00 00 4 00 4 00 W
IIIV		OR BOARD ASSY 0191810
< CAPACITO	ORS>	
CX61	24636010	EL, 1μF, 50V
CX62,CX63	24232103	CD, 0.01 μF, +80%, -20%
CX64	24634101	EL, 100μF, 25V
< RESISTOR	<b>S</b> >	
RA01,RA02		
RA03,RA04		
RA05,RA06		
RA07,RA08	24360562	CF, 5.6K ohm
RA09,RA10		
RA11,RA12		
RA13		
RA51	70421189	Poteme E 12
RX61	24360101	CF, 100 ohm

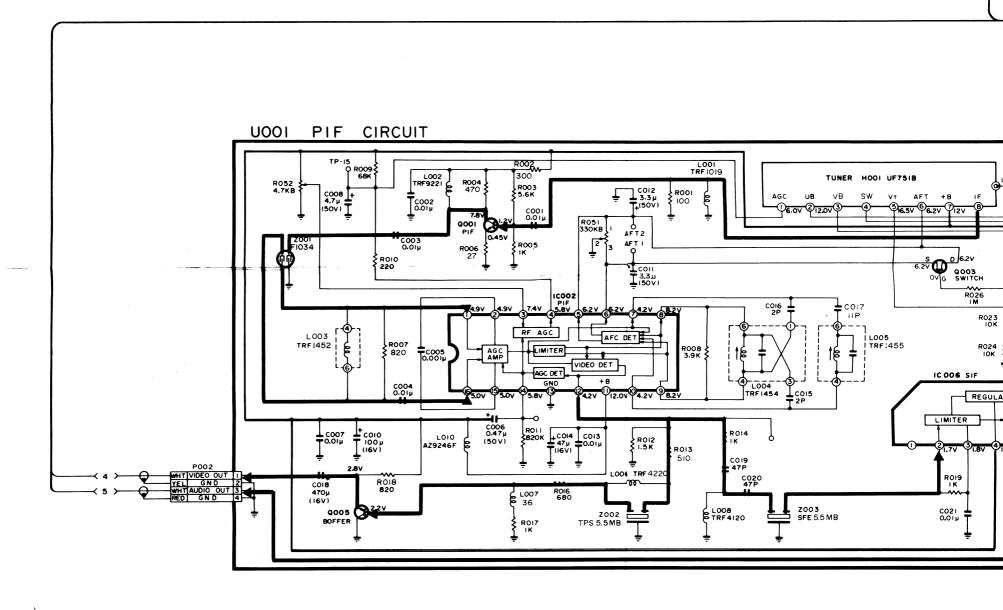
LOCATION NUMBER	PART NUMBER	DESCRIPTION
RA15, RA17 RA19	24941561	CF, 560 ohm, 1/4W
RA20	24360363	CF, 36K ohm
RA21	24360154	CF, 150K ohm
RA51	70421189	Poteme E 12
RX61	24360101	CF, 100 ohm
RX62	24360103	CF, 10K ohm
RX63,RX64	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
RX65,RX66		
RX67,RX68	24360510	CF, 51 ohm
RX69		
RX70	24360131	CF, 130 ohm
RX71,RX72	24300131	C1, 130 01111
RX71,NX72	24360820	CF, 82 ohm
RX74	24360271	CF, 270 ohm
RX75	24941681	
RX77		
62//	24360241	CF, 240 ohm
CENTION	DUCTORS.	
< SEMICON		C2 MACC TC4020DD
,	B0470282	•
·		IC, TD62501P
QA04, QA05		
QA06,QX61		
QX62,QX63		
QX64,QX65	A6534045	PNP, Transistor,
QX66,QX67	2SA1015-Y	, FA
QX68,QX69		
QX70,QX71		
QX72,QX73		
QX73		
DA01,DA02		
DA03,DA04		
DA05,DA06		
DA07,DA08		
DA09,DA10	A8605679	LED, TLG113A (FA)
DA11,DA12		
DX62,DX63		
DX64,DX65		
DX66		
DA11, DA12		
DA13,DA14		
DA15,DA16		
DA17,DA18		
DA19,DA20	> A7246711	Diode, 1S1555V
DA21,DA22	!	,
DA23,DA24	Į.	
DA25,DA26		
DA27,DA28	J	

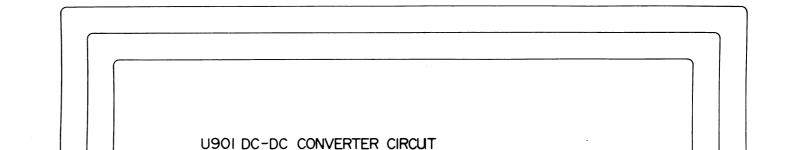
LOCATION NUMBER	PART NUMBER	DESCRIPTION
DA29,DA30		
DA31,DA32		
DA33,DA34	A7246711	Diode, 1S1555V
DA35,DA36		
DA37		
DA40	A7110114	Diode, 05Z6.8X, Zener
DA41	A7110462	Diode, 05Z13Y, Zener
DX61	A8635330	LED, TLG4163
DX68	A8600607	LED, TLR113A
< MISCELLA	NEOUS>	
SA01	70145174	Switch Lever
SX61	70145170	Switch SUV31
SX62,SX63		
SX64,SX65	70145119	Switch Tact
SX66,SX67	70140110	Owiten ract
SX68		
PX61	23164671	Plug 3P, BRN
PX62	23164668	Plug 4P, BRN
PX63	23164672	Plug 3P, BLK
PX64	23164659	Plug 8P, BRN
COMPONE	ENTS NOT M	OUNTED ON PC BOARD
< MISCELLA	ANEOUS>	
нооз	70142043	VT609
H004	70123047	RF Unit, MD5536T
P221	70165144	Plug 6P, LP, Micro
L661,L662	70212003	Sensing Coil, 0.18MH
C661,C662	24094554	CD 0.001 -F FOV
C663,C664	24094554	CD, 0.001 μF, 50V
S652,S654	70445400	
I	70145168	Leaf, Switch
S656	J	
S656 S655	70145173	Cam, Switch
S656 S655 S651	70145173 70145185	Cam, Switch Leaf Switch
S656 S655	70145173	Cam, Switch Leaf Switch
S656 S655 S651 S653	70145173 70145185 70145111	Cam, Switch Leaf Switch Switch
S656 S655 S651 S653	70145173 70145185 70145111	Cam, Switch Leaf Switch
S656 S655 S651 S653	70145173 70145185 70145111	Cam, Switch Leaf Switch Switch  ND CIRCUIT BOARD BLES ASSY
S656 S655 S651 S653	70145173 70145185 70145111 JLE UNITS A ASSEME	Cam, Switch Leaf Switch Switch  ND CIRCUIT BOARD BLES ASSY  PIF, Board Assy
S656 S655 S651 S653 MODU	70145173 70145185 70145111 JLE UNITS A ASSEME 70191809	Cam, Switch Leaf Switch Switch  ND CIRCUIT BOARD BLES ASSY  PIF, Board Assy Video Board Assy
S656 S655 S651 S653 MODU	70145173 70145185 70145111 JLE UNITS A ASSEME 70191809 70191779	Cam, Switch Leaf Switch Switch  ND CIRCUIT BOARD BLES ASSY  PIF, Board Assy Video Board Assy Video 2, Board Assy
S656 S655 S651 S653 MODU U001 U201 U301	70145173 70145185 70145111 JLE UNITS A ASSEME 70191809 70191779 70191780	Cam, Switch Leaf Switch Switch  ND CIRCUIT BOARD BLES ASSY  PIF, Board Assy Video Board Assy Video 2, Board Assy Servo Logic Audio Board Assy

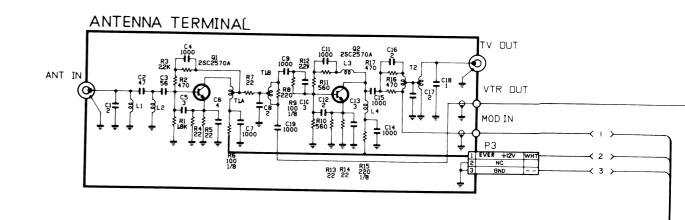
LOCATION NUMBER	PART NUMBER	DESCRIPTION
U961	70191782	Servo Clock Board Assy
ULO1	70191783	Logic Control Board Assy
UTO1	70191784	FL Motor, Board Assy
UX01	70191785	Timer Control Board Assy
UX61	70191810	Timer Selector Board Assy
ľ		•

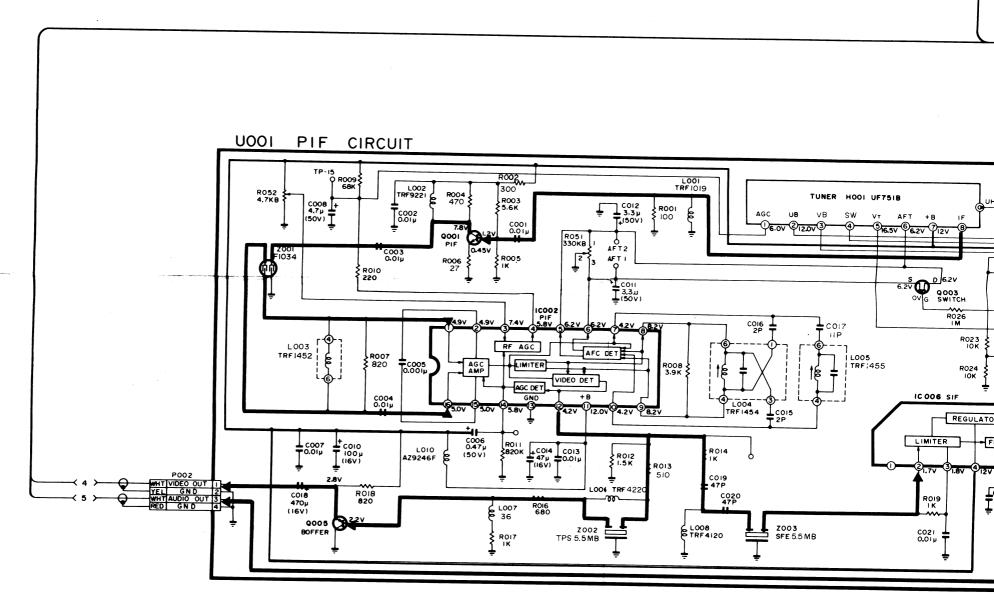
LOCATION NUMBER	PART NUMBER	DESCRIPTION	
			•
			İ
		·	

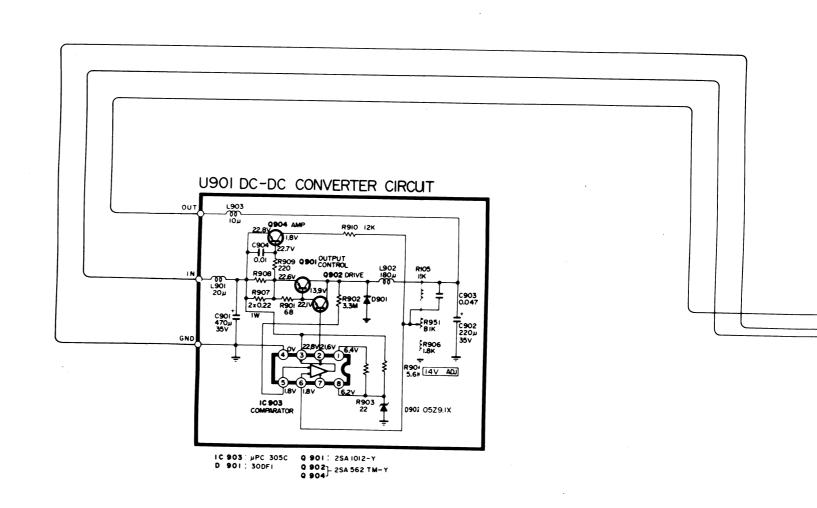


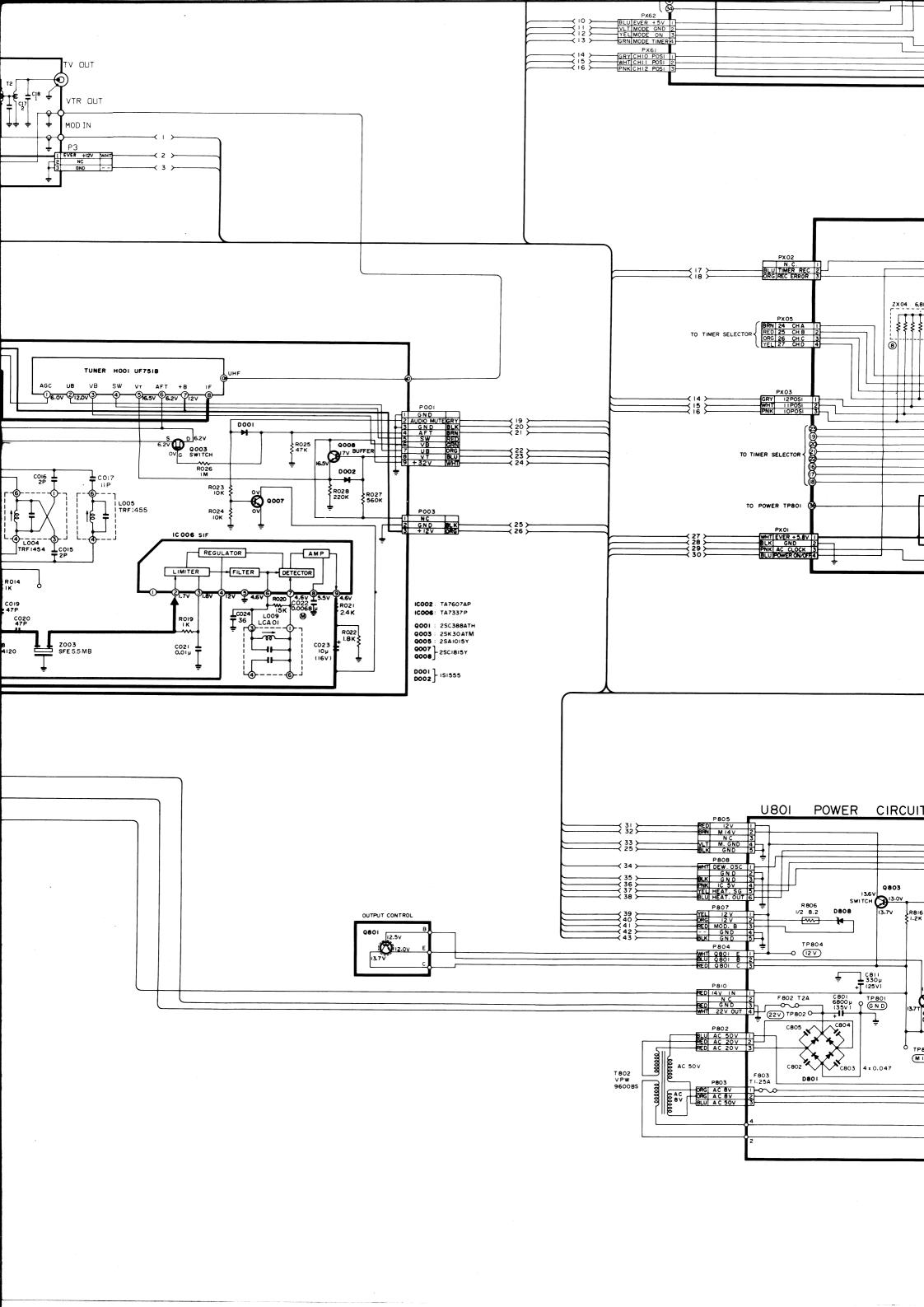


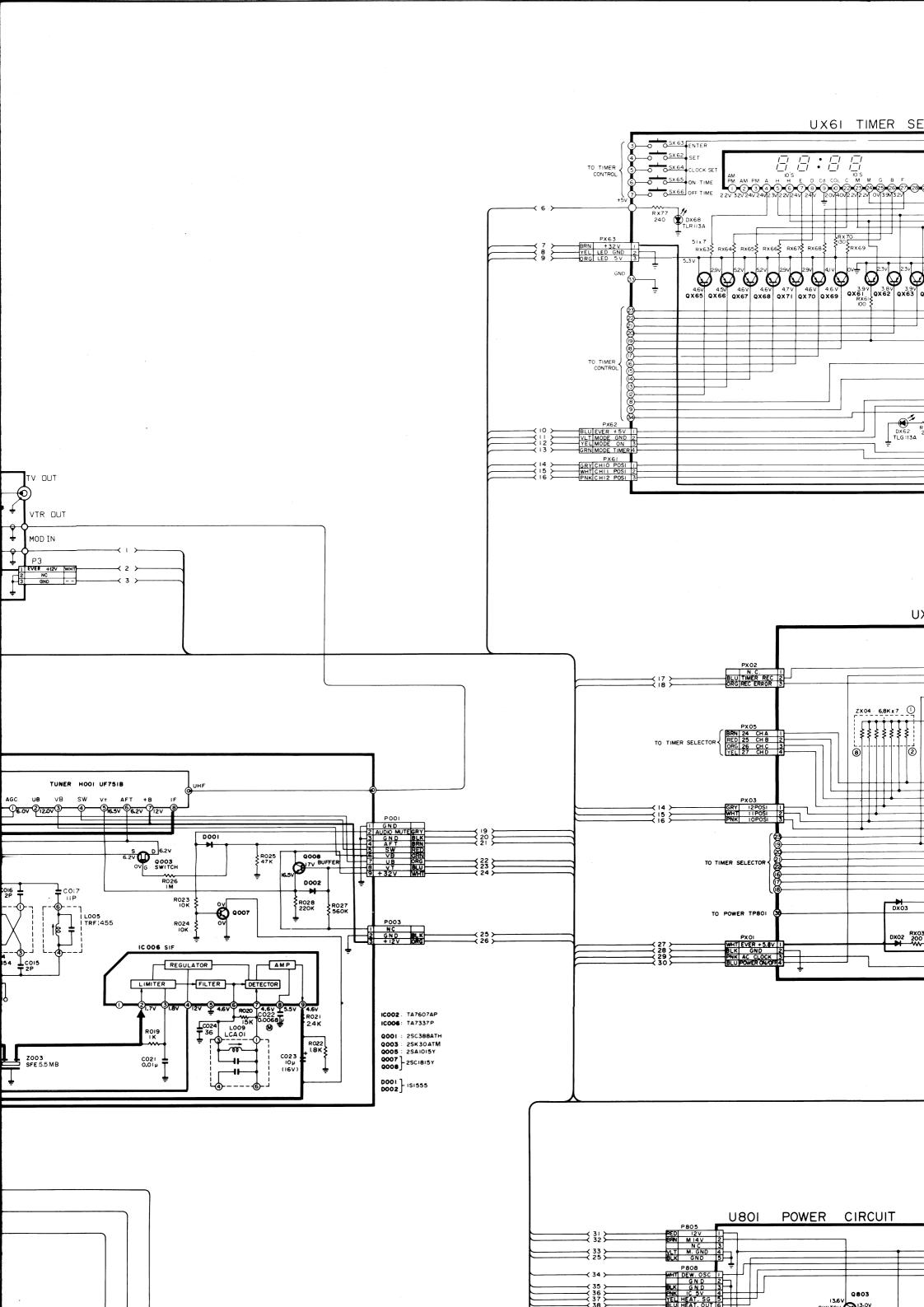


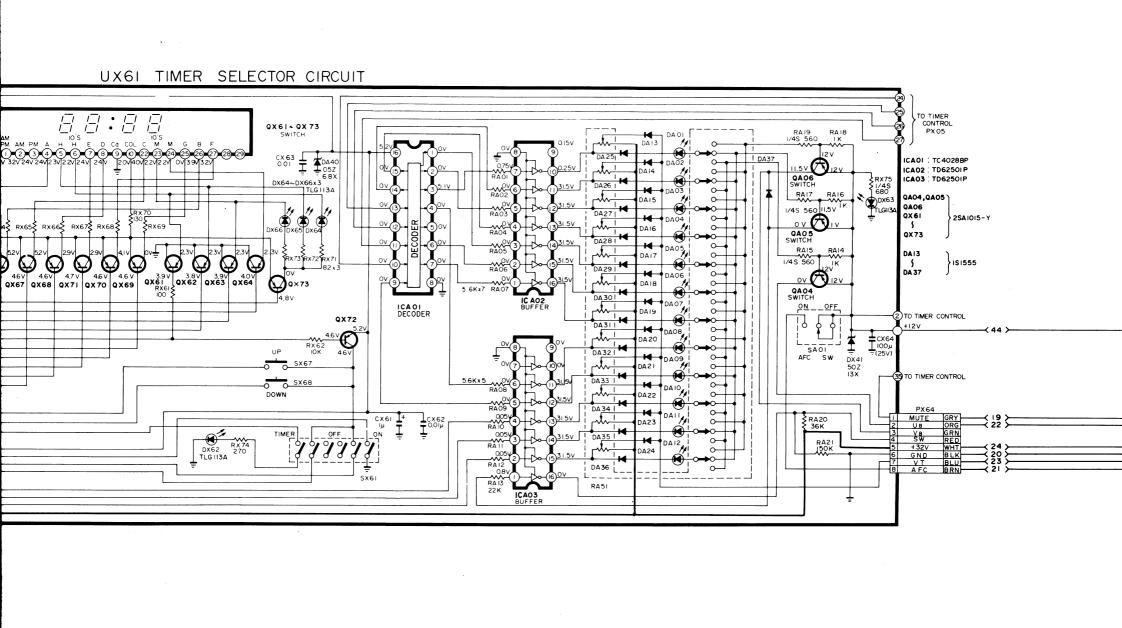


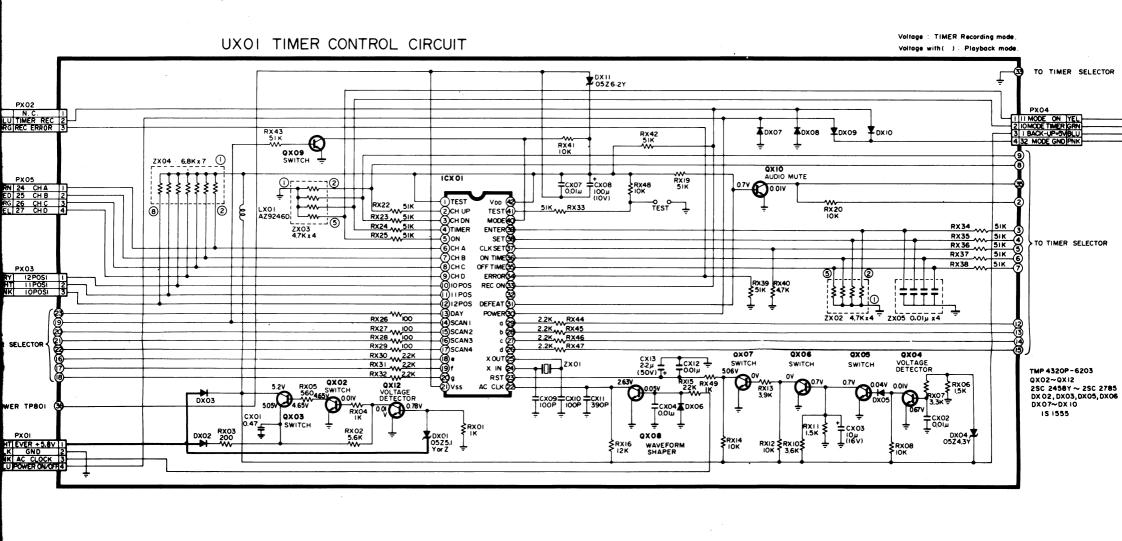


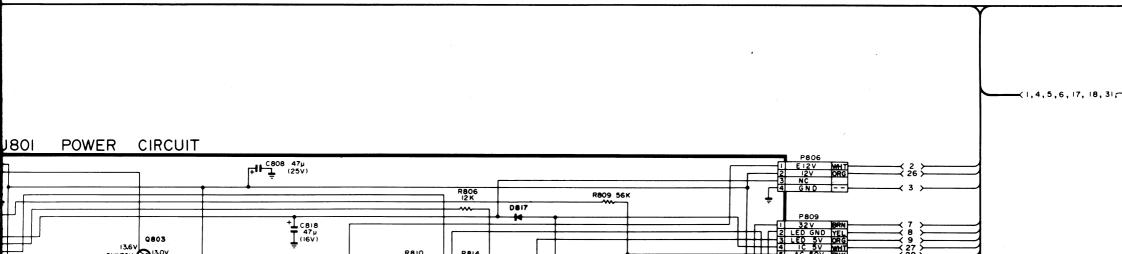


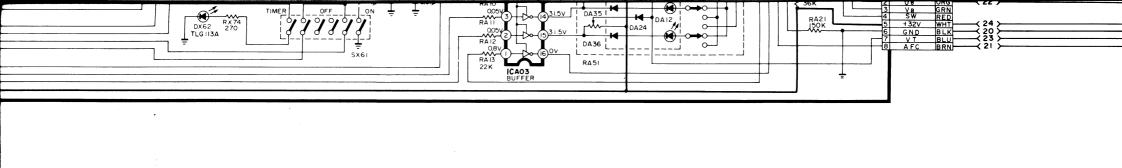


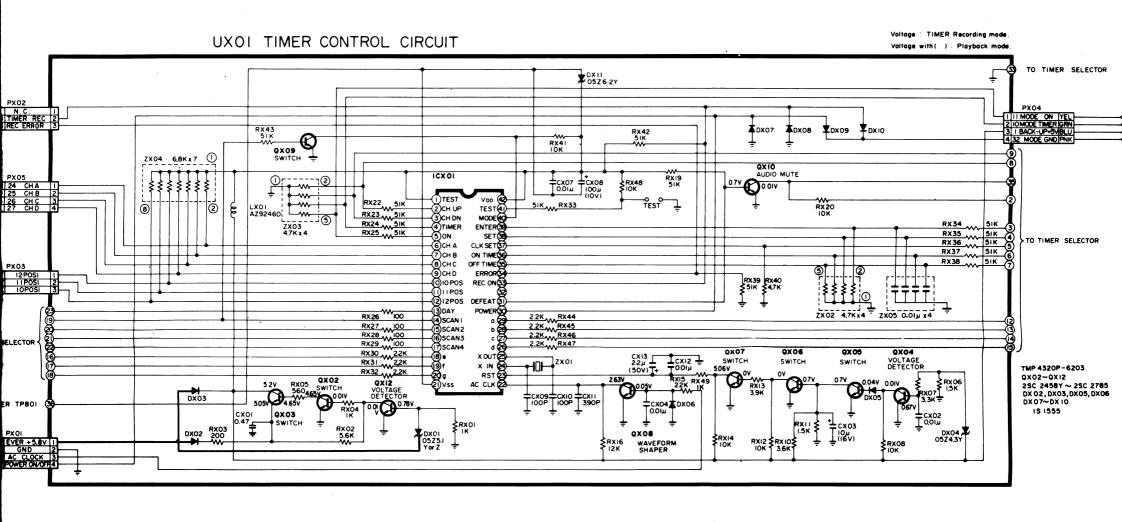


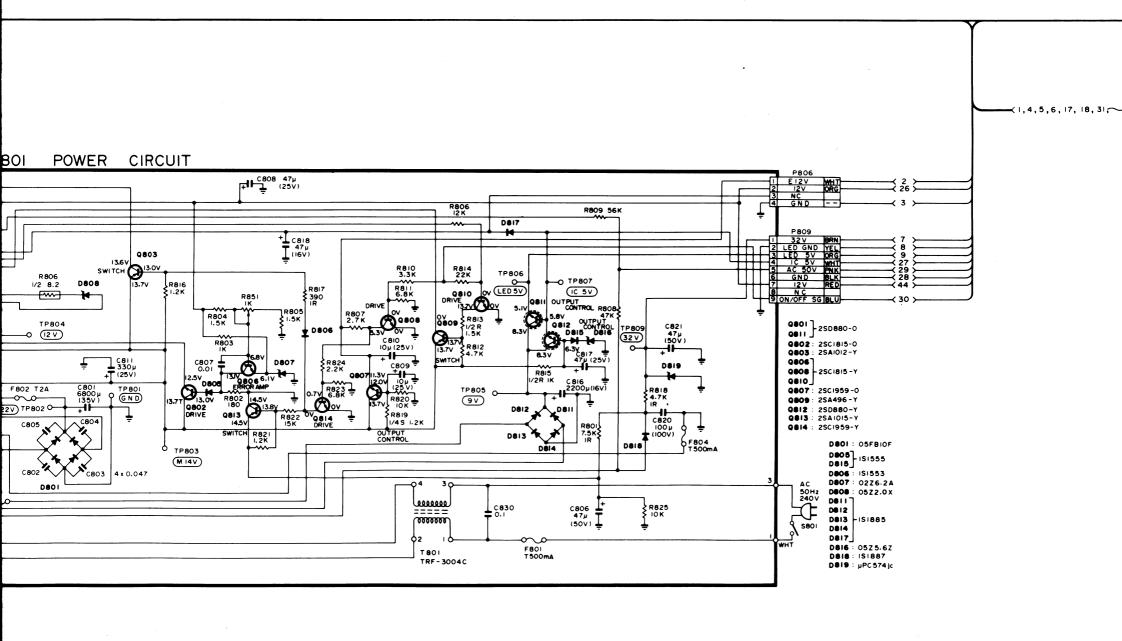


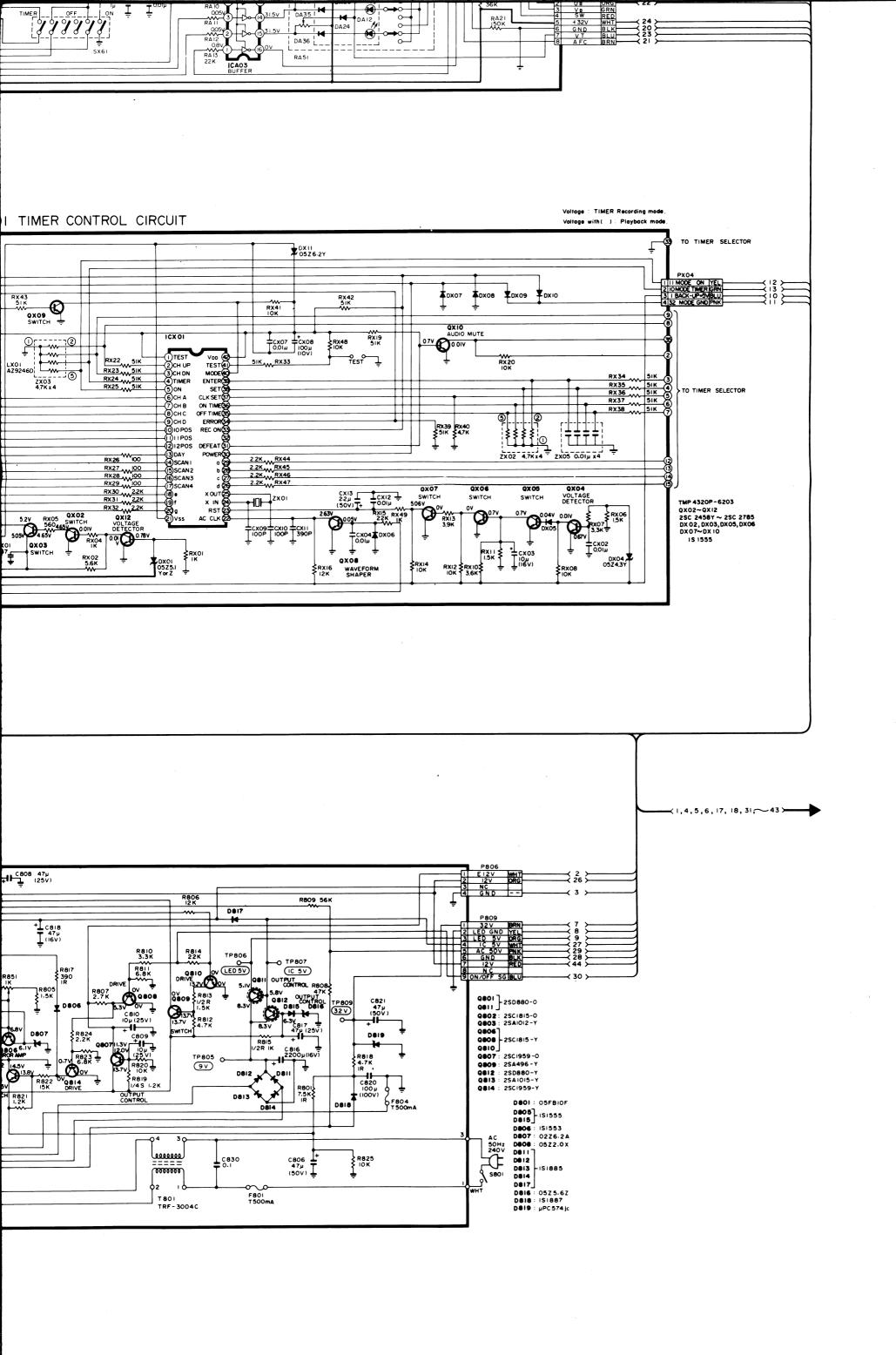


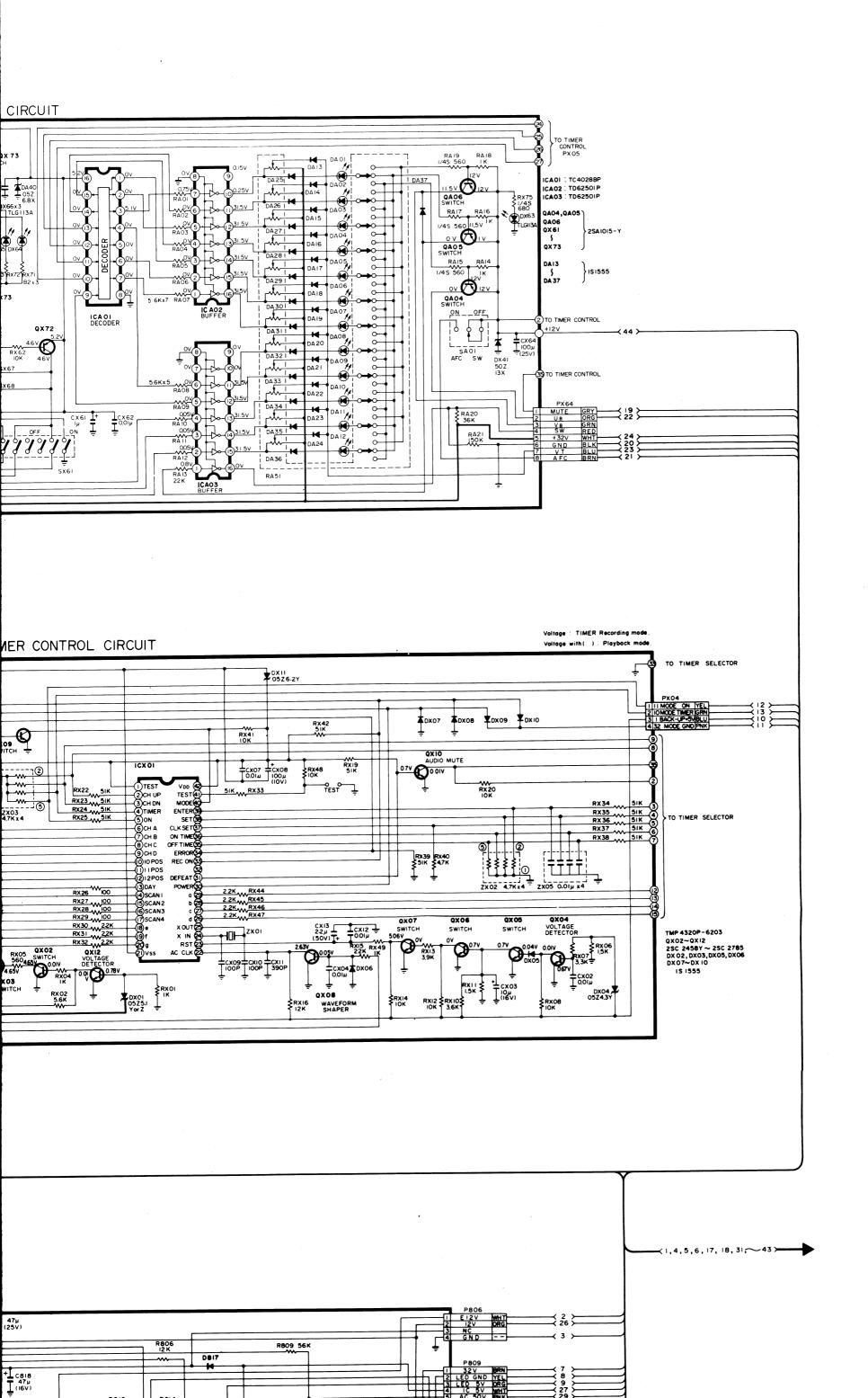


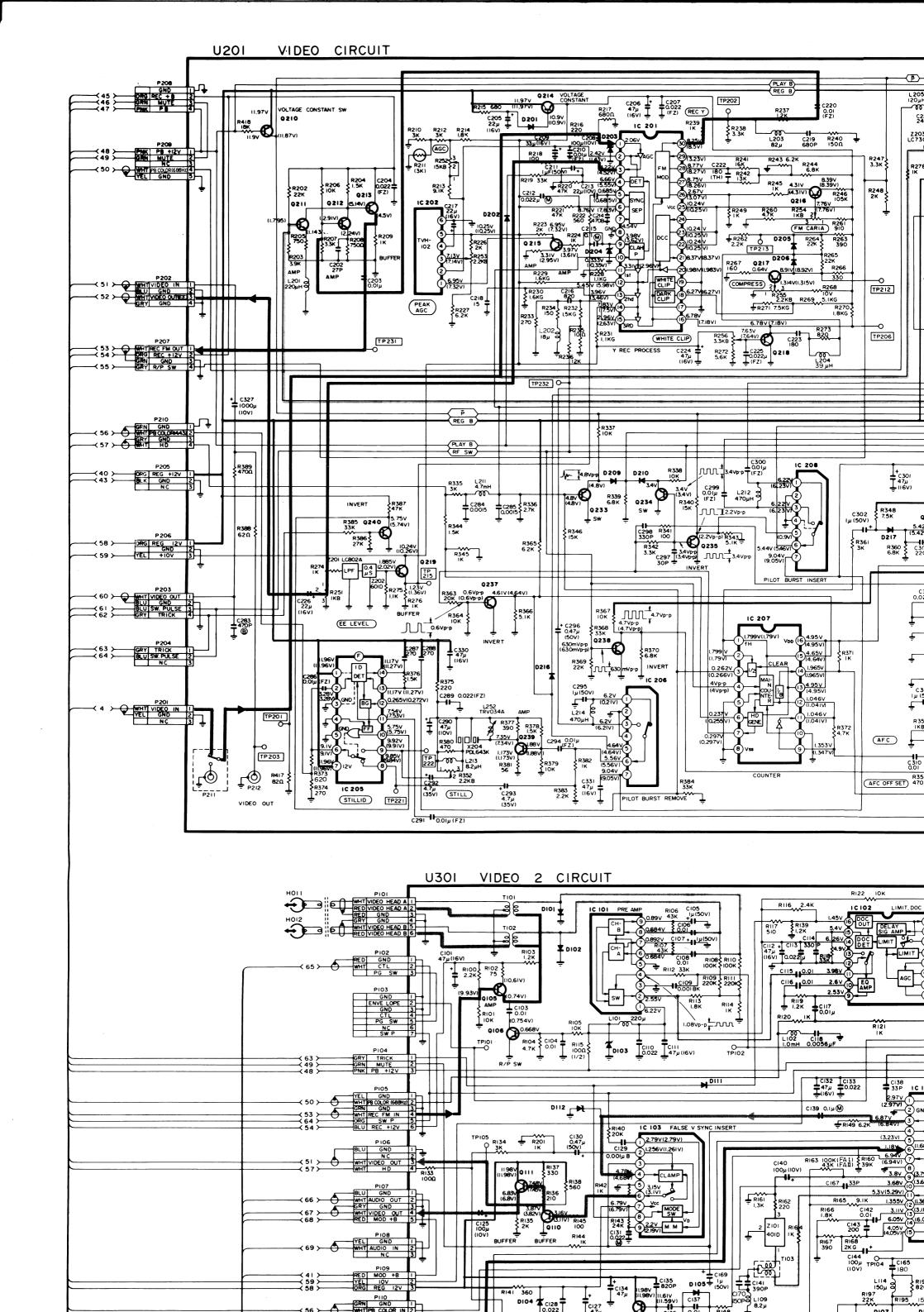


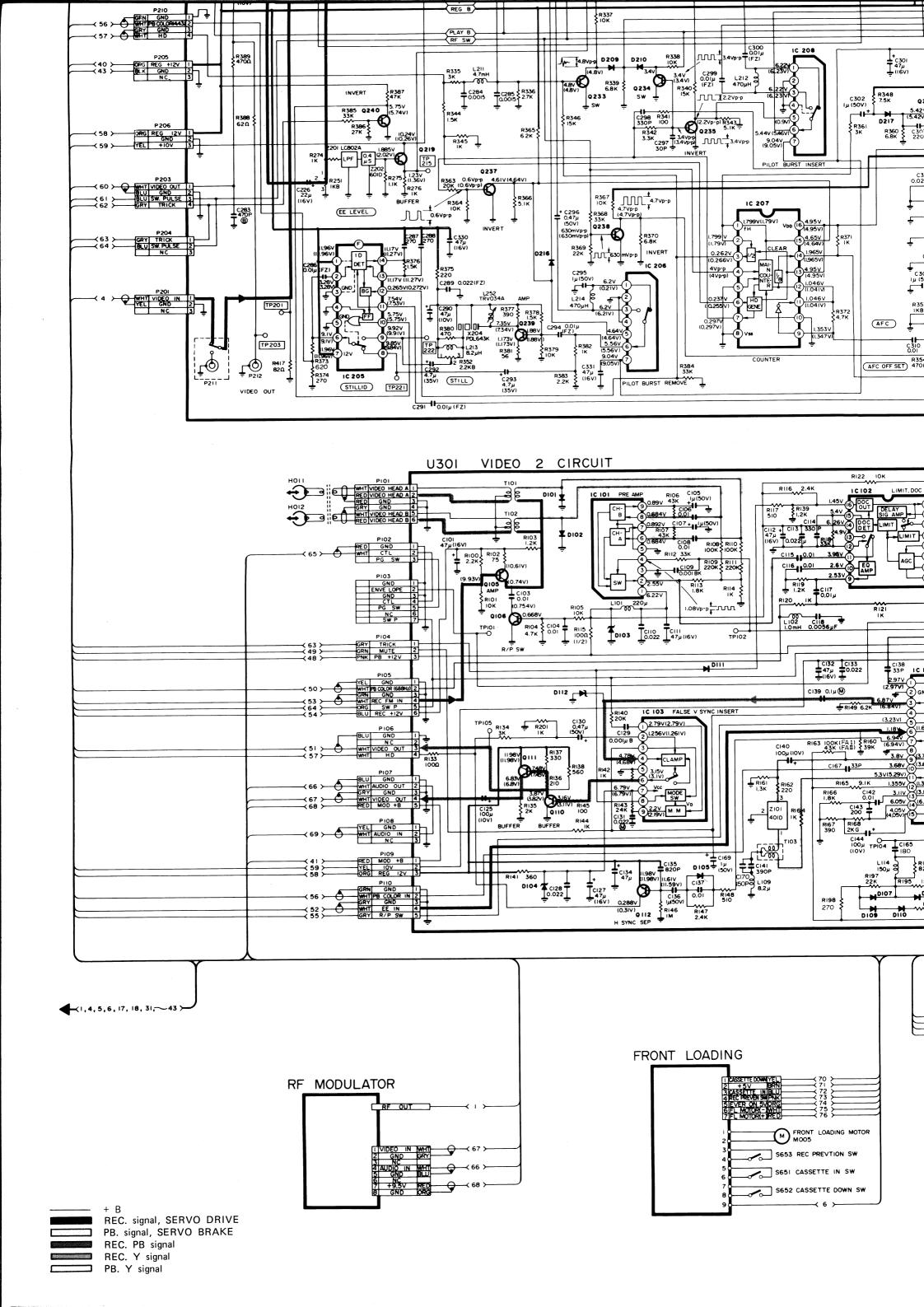


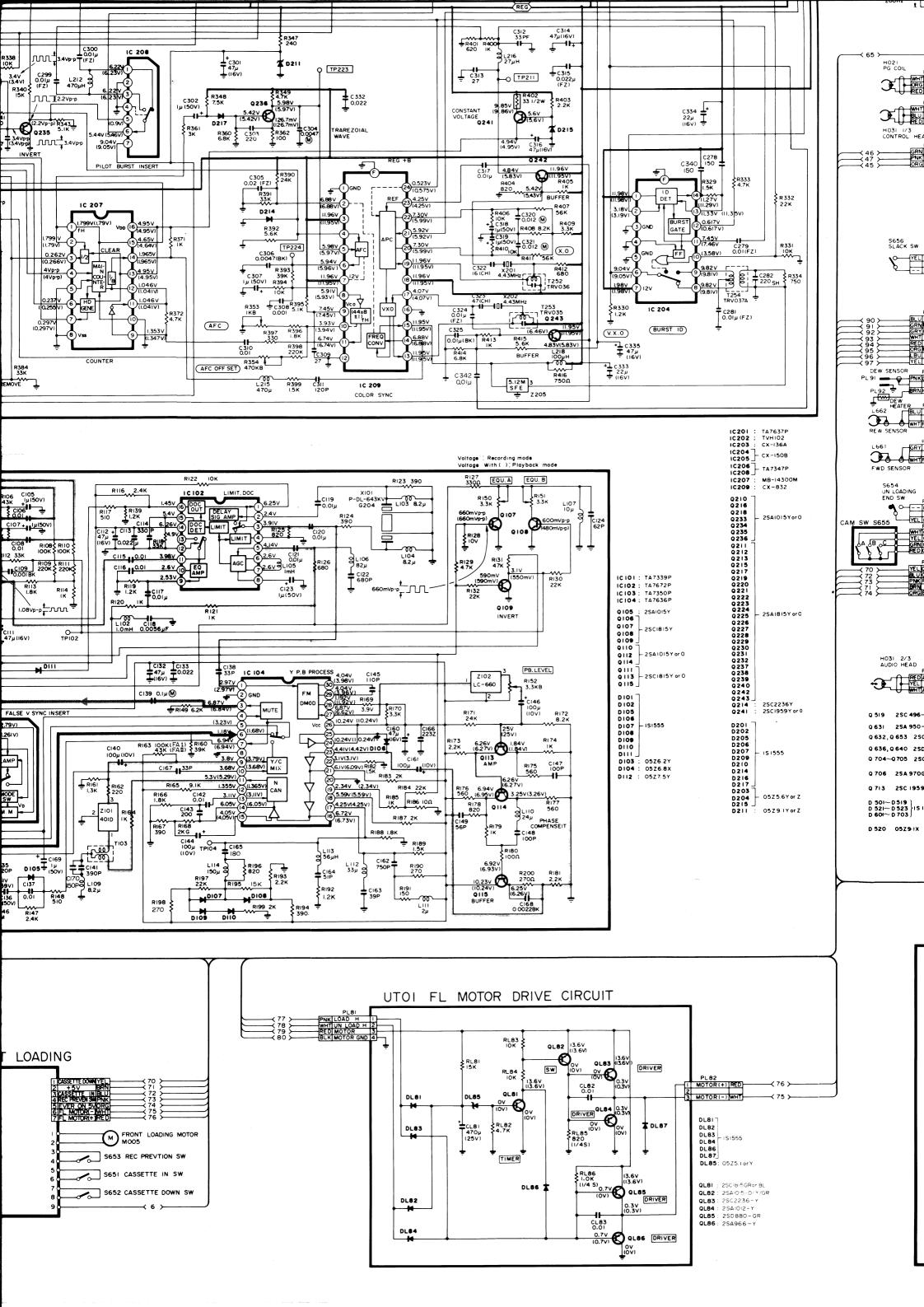


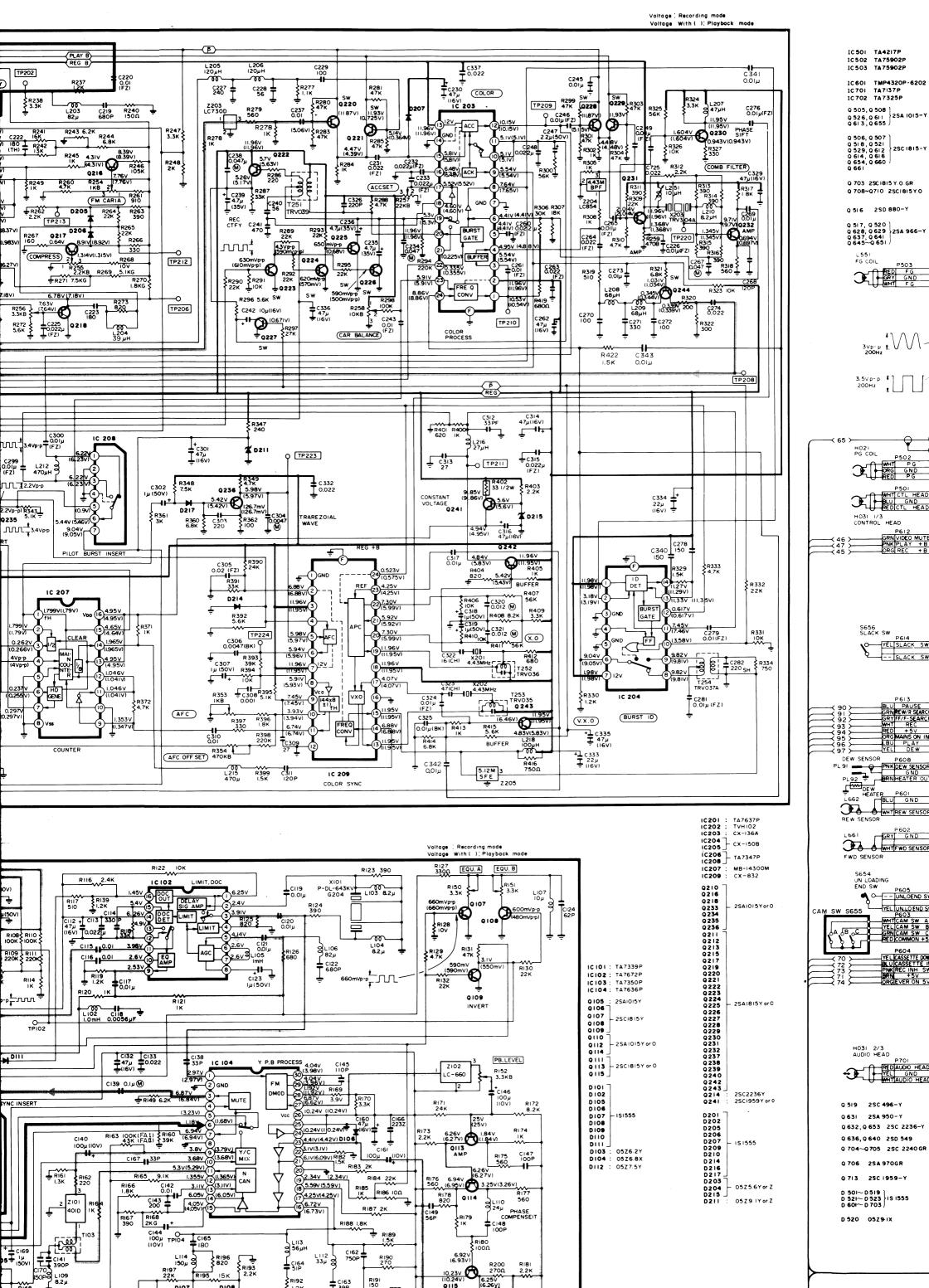












MATICTL HEAD BLU GND HO31 1/3 CONTROL HEAD

P614 -YEL SLACK SW --- SLACK SW

DEW SENSOR P608
91 PNKIDEW SENSOR
PL92 RNIMEATER OUT
DEW SENSOR
BRINHEATER OUT
L662 BLU GND REW SENSOR WHITE WE SENSOR

YEL UNLOEND S PNK REC INH SV BRN +5V ORGEVER ON 5V

